



**704-784-5353**

**900-B OREGON STREET  
KANNAPOLIS, NC 28083**

**GM METRIC HEADQUARTERS**

***X-Y-G METRIC* ®**

***NASCAR, CRATE RACING USA  
DIRT TRACK\* APPROVED***

***2022  
CATALOG***

**VOLUME 1:4.4**



Made in AMERICA

**JOHNSON CHASSIS, INC.**

[WWW.JOHNSONCHASSIS.COM](http://WWW.JOHNSONCHASSIS.COM)



## **X-Y-G METRIC®**

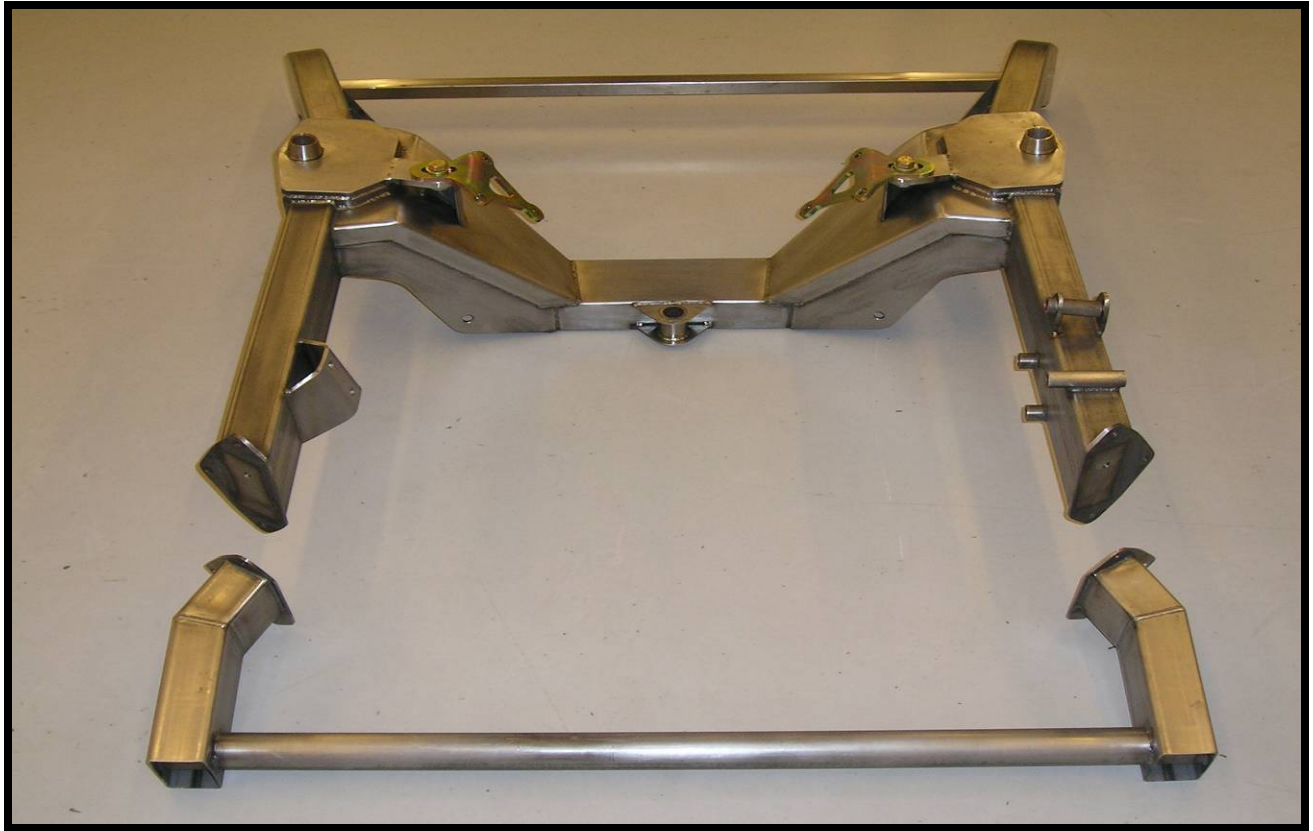
### **GM-METRIC TUBULAR REPLACEMENT O.E.M DIMENSIONS & WEIGHT 95 lb**

- ✓ **JACKBOLT OR O.E.M SHOCK AND A-ARM LOCATIONS**
- ✓ **WELDS TO STOCK FRAME RAILS OR TUBULAR CENTER SECTION**
- ✓ **USES OEM OR TUBULAR COMPONENTS**
- ✓ **MOTOR MOUNTED IN O.E.M. LOCATION OR 3" SETBACK TO # 1 PLUG**
- ✓ **LOWER A-ARM SLOTTED FOR WHEELBASE SLUGS 0"-1/4"**
- ✓ **SPECIFY UPPER CONTROL ARM LOCATION WHEN ORDERING**  
**O.E.M 6 7/8" - 6" CENTER MOUNTS - 6" SLOTTED MOUNTS**

**#JCI 09-01-011M \$795.00**

**FRAME EXT & MOTOR MOUNTS  
NOT INCLUDED**

***LASER CUT & CNC BENT FOR REPEATABILITY***

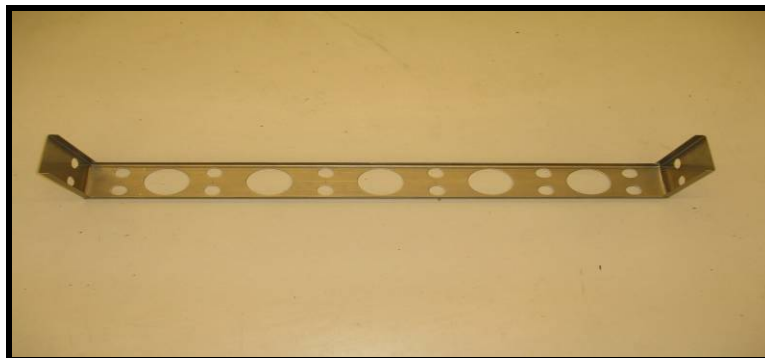


#JCI 09-01-022

**BOLT ON FRAME EXTENTION**

***\$85.00***

**RADIATOR SLING**



#JCI 09-01-022-28"

#JCI 09-01-022-31"

***\$35.00***



# TUBULAR LOWER A-ARMS

## O.E.M. DIMENSIONS & WEIGHT 12.5 lbs.

### ***\$175.00 – \$235.00***

***AVAILABLE W/BUSHINGS OR MONOBALL & HARDWARE***

BARE FOR MONOBALL	JCI-09-02-01M-? (L-R)-(SP-BP-S-B)	\$185.00
W/MONOBALLS & SPACERS	JCI-09-02-01MC-? (L-R)-(SP-BP-S-B)	\$235.00
BARE FOR RUBBER BUSHING	JCI-09-02-01R-? (L-R)-(SP-BP-S-B)	\$185.00
W/RUBBER BUSHINGS	JCI-09-02-01RC-? (L-R)-(SP-BP-S-B)	\$225.00

***ALL ARMS AVAILABLE +1 INCH LONGER*** ***\$235.00***

***RF +2 INCH LONGER*** ***\$250.00***

L-LEFT R-RIGHT SP-SMALL PRESS IN BP-BIG PRESS IN S-SMALL SCREW IN B-BIG SCREW IN

EXAMPLE: JCI-09-01-RC-R-SP = RIGHTSIDE SMALL PRESS IN BALLJOINT W/BUSHINGS

***BOLT IN COIL SPRING HELIX \$30.00***

#JCI 09-02-015-3.50      3.50 SPRING INSIDE DIAMETER

#JCI 09-02-015-3.75      3.75 SPRING INSIDE DIAMETER

#JCI 09-02-015-4.00      4.00 SPRING INSIDE DIAMETER

#JCI 09-02-015-SS      OEM SHOCK THRU A-ARM PLATE ***\$12.50***

***LASER CUT CNC BENT FOR REPEATABILITY***





# 4-LINK TRAILING ARMS

O.E.M WEIGHT 4.3 lbs

O.E.M LOWER LENGTH 19 1/4"

O.E.M UPPER LENGTH 11 1/4"

BARE ARM FOR MONOBALL	OEM	JCI-09-03-01	\$ 65.00ea
W-MONOBALLS & SPACERS	OEM	JCI-09-03-01M	97.00ea
BARE ARM FOR MONOBALL	+1/2"	JCI-09-03-14	65.00ea
W-MONOBALLS & SPACERS	+1/2"	JCI-09-03-14M	97.00ea
BARE ARM FOR RUBBER	OEM	JCI-09-03-03	65.00ea
W/ 80duro RUBBER BUSHINGS	OEM	JCI-09-03-03B	96.00ea
BARE ARM FOR RUBBER	+1/2"	JCI-09-03-02	65.00ea
W/ 80duro RUBBER BUSHINGS	+1/2"	JCI-09-03-02B	96.00ea
4-LINK UPPER W/ RUBBER		JCI-09-03-04	65.00ea

MONOBALL W/SPACERS	JCI-COM12-2	30.00ea
RUBBER BUSHINGS W/SPACER	JCI-03-003-? (50-80)	24.00ea

**JCI RUBBER BUSHINGS ARE 50 & 80 DUROMETER W/1/2" HOLE THEY CREATE LESS BIND THRU TRAVEL IN ADDITION, PROMOTE MORE FORWARD BITE....**

***“NEW ITEM”***



**4 - LINK**  
**ADJUSTABLE UPPER TRAILINGS**

**“PROMOTES MORE FORWARD BITE”**

**AVAILABLE WITH 50 OR 80 DURO BUSHINGS**

**3/4” HEIM or MONOBALL**

**ALL BUSHINGS 1/2” HOLE**

**\$225** **PAIR**

***“NEW ITEM”***



**“GM METRIC”**  
**ADJUSTABLE LOWER TRAILING ARMS**

**“TIG WELDED .120 wall D.O.M”**

**AVAILABLE WITH 50 OR 80 DURO BUSHINGS**

**3/4” HEIM or MONOBALL**

**ALL BUSHINGS 1/2” HOLE**

**\$235** **PAIR**

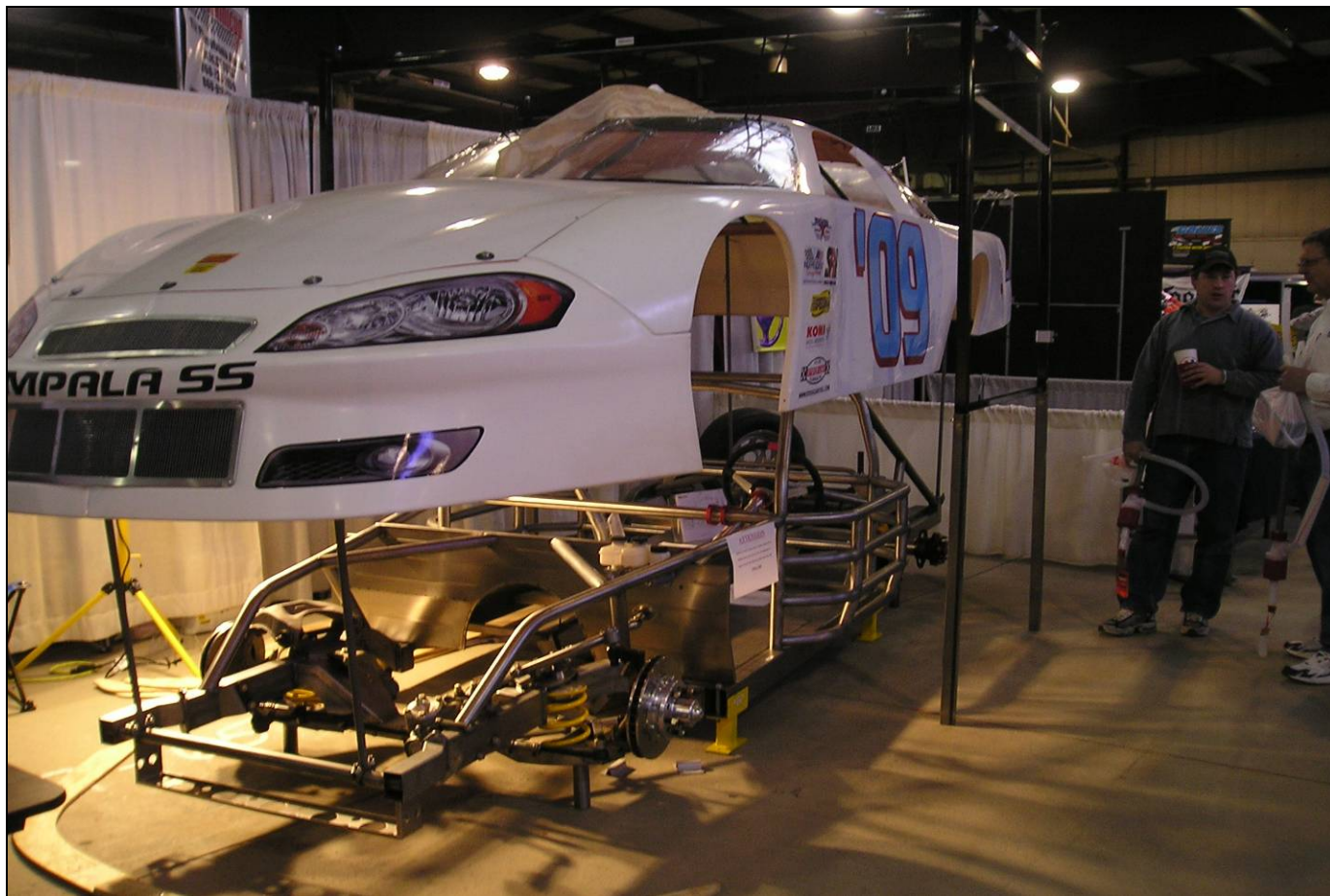


## **DROPPED AND SLUGGED CENTERLINK**

- **O.E.M. TIEROD CENTERS 13"     *\$225.00***  
**JCI 09-02-1-13**
- **WIDE TIEROD CENTERS 15"     *\$265.00***  
**JCI 09-02-1-15**
- **CENTERS 17" DROP SPINDLE     *\$325.00***  
**JCI 09-02-1-17DS**
- **SLUG KIT (2ea) 0"- 1/8"- 1/4"-3/8"     *\$123.00***  
**JCI 09-02-1-CSK**
- **UPPER A-ARM SLUG KIT (4)-0"(2ea)-1/8-1/4-3/8-1/2     *\$123***  
**JCI 09-02-1-USK**
- **WHEELBASE SLUG KIT (4)-0" (2ea) 1/16"-1/8-1/4"     *\$88.00***  
**JCI 09-01-3456**







## ***O.E.M GM-METRIC TUBULAR REPLACEMENT PRE-FORMED FRAME RAILS***

***CLEARANCED FOR REAR BRAKE CALIPERS***

***STOCK WEIGHT AND DIMENSIONS***

***ACCEPTS STOCK OR TUBULAR COMPONENTS***

***WILL ACCEPT STOCK BODY PANELS***

***STARTING AT \$2095.00***



***78-89 GM-METRIC FRAME***

***SPECIFY 3-LINK OR 4-LINK***

***O.E.M 225 lbs. 3"X 4 X .125 MAIN RAILS***

# REAR FRAME SECTION



**3-LINK OR 4-LINK W/BUCKETS \$450.00 09-03-001-B**  
**W/KICKERS & TRAILING ARM MOUNTS \$525.00 09-03-001-4K**  
***PREFORMED 2"X 3"X .125***  
**CLEARANCED FOR BRAKE CALIPERS**  
**RAISED BUCKETS FOR 16" TALL SPRINGS**



#JCI-09-1M

**X-Y-G METRIC®**

**“MODIFIED”**

**25" FROM 108" REAR AXLE CENTERLINE**

**\$ 950.00**

***“NEW ITEM”***



## **2022 DIRT CAR FRAME**



***CRUSA APPROVED!!!  
“PURCHASE FROM CRUSA”***



***MID-EAST APPROVED!!!  
“PURCHASE FROM JOHNSON CHASSIS”***



WHEELBASE SLUGS ARE **NOT** AN OPTION ON DIRT FRAMES





**BARE FRAME** W/MOTOR MOUNTS AND ALL SUSPENSION POINTS  
**#JCI-09-1B** W/SPRING BUCKETS, BOLT ON FRAME EXTENTION

**\$2095**

**ADD ONS:** TRANS X-MEMBER & CENTER FRAME X BRACING **ADD \$269**  
FUEL CELL CAGE **ADD \$299**  
LEAD RAIL CAPS **ADD \$42**  
3<sup>rd</sup> LINK BRACKET **ADD \$25**  
.090 DRIVERS FLOOR **ADD \$90.00**

**FRAME & CAGE** INCLUDES BARE FRAME W/D.O.M ROLL CAGE  
**#JCI-09-1FC** starting at **\$4000**

**SURFACE PLATE** INCLUDES BARE FRAME W/D.O.M ROLL CAGE  
**#JCI-09-1SP** ALL FIREWALLS, DRIVESHAFT HOOPS  
CENTER X BRACING, 4 LINK OEM X-MEMBER  
REAR BUMPER MOUNTS, ENGINE & TRANS MOUNTED  
starting at **\$5995**

**ROLLER** INCLUDES SURFACE PLATE **PLUS**  
**#JCI-09-1R** ALL TUBULAR SUSPENSION ARMS, PEM 9" REAREND  
W/HUBS, AXLES, ROTORS. FRONT SUSPENSION W/HUBS  
ROTORS AND STEERING, JACKBOLTS,  
Starting at **\$10,500**

**ADD ONS:** WILWOOD PEDALS AND MASTERS **ADD \$460**  
COLLAPSIBLE STEERING COLUMN **ADD \$325**  
LEFT SIDE DOOR INTRUSION PANEL **ADD \$250**  
8:1 STEERING BOX **ADD \$700**





***DIRT 1 1/2" ROUND X-MEMBERS***



**RIGHTSIDE DOOR BAR OPTIONS**

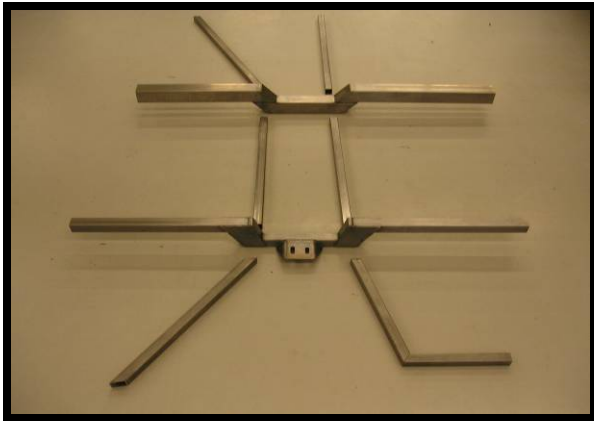
**BOLT-ON TAIL SECTION**



***METRIC RIGHT A-ARM***

***METRIC LEFT A-ARM***

## **ADD-ONS AND REPAIR PARTS**



**FRAME CENTER X-MEMBERS**

#09-01-028 **\$325.00**



**LEFT DOOR INTRUSION PLATE**

09-01-027DI **\$300.00**



**TOP LINK BRACKETS**

**3 HOLE 09-03-003**

**SLOTTED 09-03-004 \$9.50ea**



**FRAME REPAIR PARTS**

***CALL FOR PRICES***



**LEAD RAIL CAP KIT**

09-01-023 **\$7.95**



**4-LINK OEM CROSSMEMBER**

**\$130.00**



### **SPRING HELIX**

**\$35.00**

09-02-015-3.74

09-02-015 -4.00

09-02-015-3.50



### **SHOCK MOUNTS**

**\$12.50**

LOWER 09-02-011

UPPER NOTCHED 1 3/4" 09-02-012



### **SPRING BUCKETS**

**\$65.00**

09-01-005-FC

09-01-005-RC



### **IDLER ARM BRACKET**

09-01-014 **\$12.50**



### **UPPER A-ARM**

METRIC JACKBOLT **\$15.00**

METRIC OEM SHOCK **\$16.00**

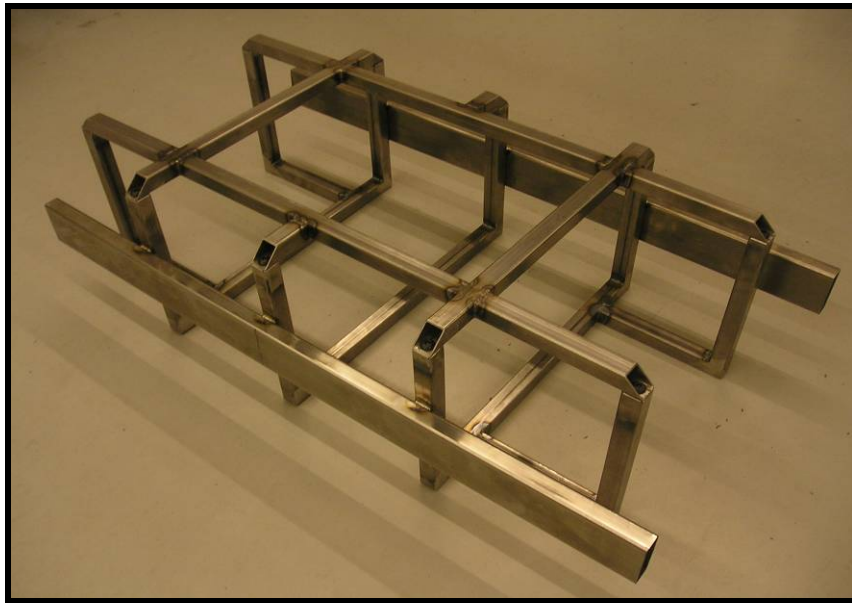
MULTI-HOLE w/GUSSETS **\$18.50**



### **TRANNNY BRACKET**

09-01-013 **\$12.50**





JCI-03-03

## FUEL CELL CAGE

**TIG WELDED**

**\$325.00-\$349 *INSTALLED***



**\$800-\$1200**

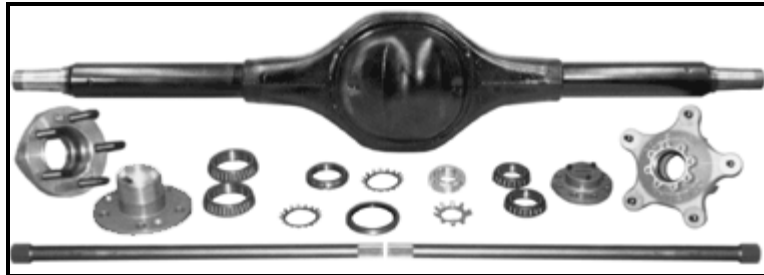




WE HAVE EVERYTHING  
IN STOCK OR AVAILABLE TO  
***“BUILD A CHAMPION”***



## KIT CAR PARTS PACKAGE



**PEM 9" FLOATER COMPLETE**  
**BARE W/O GEAR \$950**  
**WITH ALL BRACKETS \$1650**



**SPRING \$60 AND UP**



**JACKBOLTS & SPRING RETAINER**  
**STEEL or ALUM starting at \$45**

**LEPTHANDER** Screw-In Upper Control Arm with Bearing Shaft

- Free movement
- No bracing
- 4 thrust bearings puts no binding under braking
- 4 bare shaft bearings puts free movement thru road
- Powder coated satin black
- Available in straight, 10°, or 20°
- Slits screw in ball joint

Measured from  $\epsilon$  of cross shaft to  $\epsilon$  of ball joint

Length	Weight	10°	20°
7 1/4"	001-100-275	001-100-275-10	-
8"	001-100-300	001-100-300-10	-
8 1/4"	001-100-320	001-100-320-10	-
8 1/2"	001-100-340	001-100-340-10	-
8 3/4"	001-100-360	001-100-360-10	-
9"	001-100-380	001-100-380-10	001-100-380-20
9 1/4"	001-100-400	001-100-400-10	001-100-400-20
9 1/2"	001-100-420	001-100-420-10	001-100-420-20
9 3/4"	001-100-440	001-100-440-10	001-100-440-20
10"	001-100-460	001-100-460-10	001-100-460-20
10 1/4"	001-100-480	001-100-480-10	001-100-480-20
10 1/2"	001-100-500	001-100-500-10	001-100-500-20
10 3/4"	001-100-520	001-100-520-10	001-100-520-20
11"	001-100-540	001-100-540-10	001-100-540-20
11 1/4"	001-100-560	001-100-560-10	001-100-560-20
11 1/2"	001-100-580	001-100-580-10	001-100-580-20
11 3/4"	001-100-600	001-100-600-10	001-100-600-20
12"	001-100-620	001-100-620-10	001-100-620-20

**Replacement Parts**

Part	Part Number	Price
A-arm shaft	001-288-08	22.49
Shaft bearing	001-288-200	4.49
Thrust bearing	002-081-106	6.99
Thrust washer	002-791-0-1018	3.99
Collar bolt	002-582-10	2.49
Grease zerk	110-2885	.25

**LEPTHANDER** Screw-In Upper Control Arm with Slotted Steel Shaft

- Available in 1/2" increments
- Powder coated satin black
- Available in straight, 10°, or 20°
- Measured from  $\epsilon$  of cross shaft to  $\epsilon$  of ball joint

Interchangeable with the A-arm shown above

**NEW!**

Shaft in the same width as the 100 series

Length	Weight	10°	20°
8"	001-112-800	001-112-800-10	-
8 1/4"	001-112-820	001-112-820-10	-
8 1/2"	001-112-840	001-112-840-10	001-112-840-20
8 3/4"	001-112-860	001-112-860-10	001-112-860-20
9"	001-112-880	001-112-880-10	001-112-880-20
9 1/4"	001-112-900	001-112-900-10	001-112-900-20
9 1/2"	001-112-920	001-112-920-10	001-112-920-20
9 3/4"	001-112-940	001-112-940-10	001-112-940-20
10"	001-112-960	001-112-960-10	001-112-960-20
10 1/4"	001-112-980	001-112-980-10	001-112-980-20
10 1/2"	001-112-1000	001-112-1000-10	001-112-1000-20
10 3/4"	001-112-1020	001-112-1020-10	001-112-1020-20
11"	001-112-1040	001-112-1040-10	001-112-1040-20
11 1/4"	001-112-1060	001-112-1060-10	001-112-1060-20
11 1/2"	001-112-1080	001-112-1080-10	001-112-1080-20
11 3/4"	001-112-1100	001-112-1100-10	001-112-1100-20
12"	001-112-1120	001-112-1120-10	001-112-1120-20

**Replacement Parts**

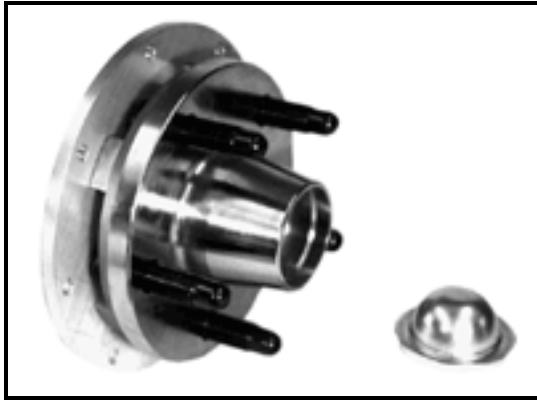
Part	Part Number	Price
Steel A-arm shaft	001-288-57	25.99
Shaft bearing	001-288-100	2.99
Nut	002-2885	1.25

Phone: 815-389-9999    **LEPTHANDER**    Fax: 800-779-6461

**UPPER A-ARMS**

**\$75-\$138**

**IMCA STOCK – SUPER STOCK LATE MODEL**



## HUBS

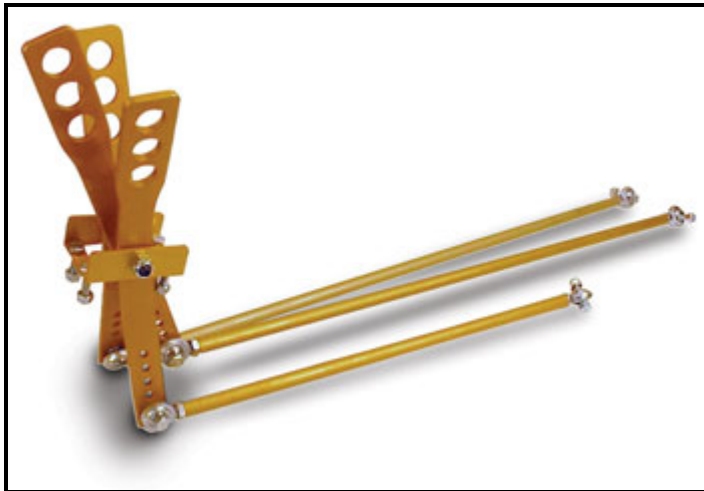
STEEL **\$257**

ALUM **\$235**



## *BRAKE STUFF GALORE*

**ASK!!!**



SHIFTER **\$85**



PEDALS & MASTER CYLINDERS

**\$ 399**



STARTING AT **\$75.00**



COLLAPSIBLE STEERING

**\$350.00**





**1700 CFM *\$65.00***  
**2100 CFM *\$95.00***



**RADIATORS *from \$199***



**DASH & WIRING HARNESS W/TACH  
WIRED FOR H.E.I. IGNITION-REV LIMITER  
ELECTRIC FAN - BRAKE BLOWER  
*\$650***



**TOP LINK KIT  
*\$250.00***



**8:1 STEERING BOX  
*\$700.00***





***“FUGITABOUTIT”***

***JOHNSON CHASSIS, INC.***

***“WATCH DOG INSPECTION”***

***TEMPLATES AND FIXTURES  
WILL BE USED TO INSURE THE INTEGRITY OF THE***

***X-Y-G METRIC®***

***TUBULAR FRAME & COMPONENTS***

**ALL TEMPLATES & FIXTURES  
WILL FIT & INSPECT  
O.E.M & X-Y-G METRIC®  
COMPONENTS & FRAMES**



**LEFT & RIGHT A-ARM  
NO GO TEMPLATES**

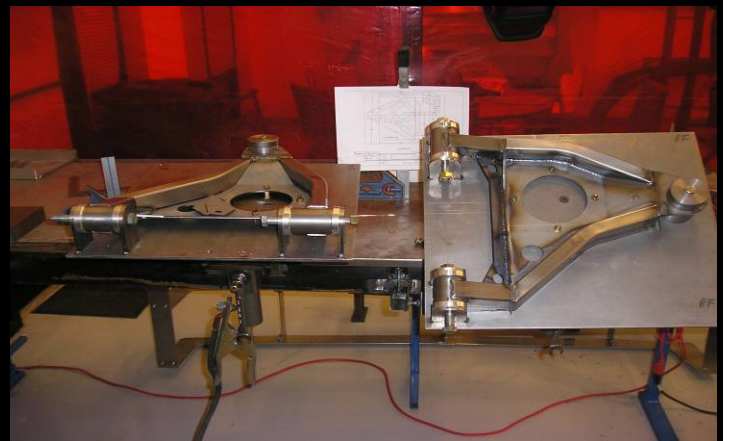
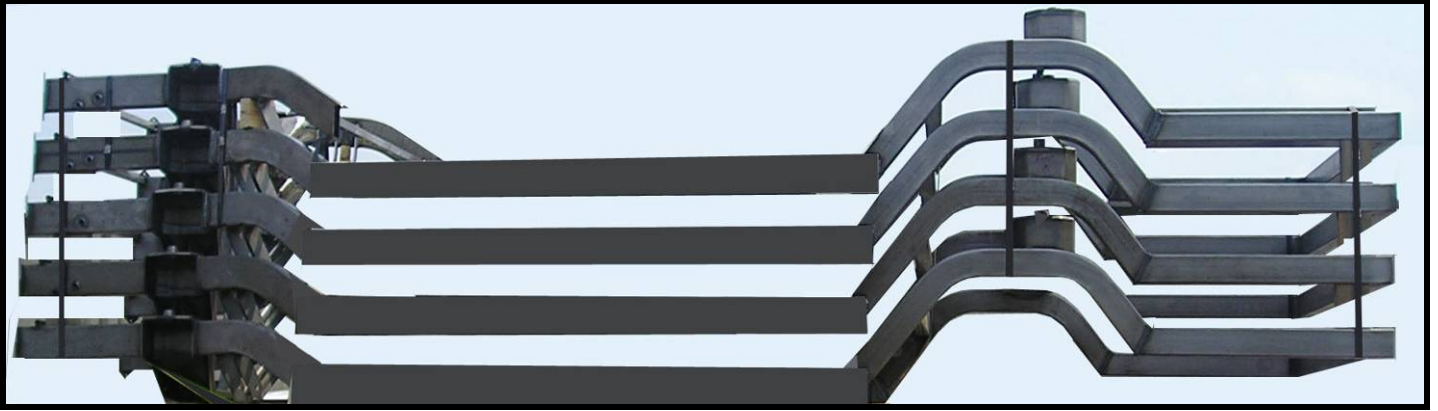
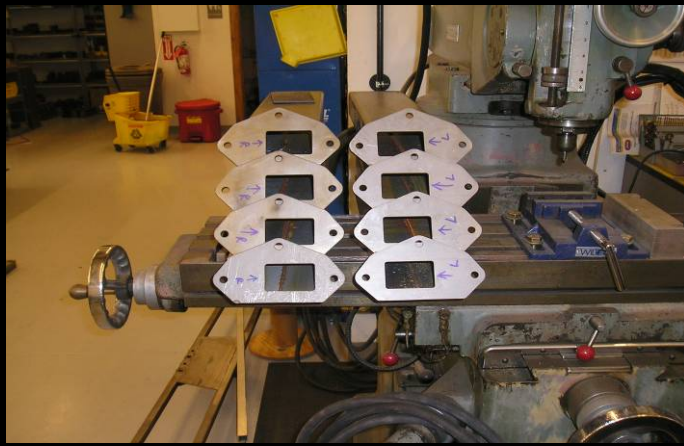


**LOWER TRAILING A-ARM  
NO GO TEMPLATE**



**FRONT SUB-FRAME INSPECTOR**







## **DISCLAIMER**

Because of the dangers and unforeseen events that accompany Motorsports and the impossibility to oversee each and every installation it is the users responsibility to determine if the installation was proper. The user thereafter assumes all responsibility related to or created by the use of these parts thereby releasing JOHNSON CHASSIS, INC. from all liabilities resulting in injury, dismemberment, and death. If you do not agree with these terms, **DO NOT** install these parts. Installing these parts validates this agreement.

**ALL PRICES F.O.B KANNAPOLIS,NC.**

**ALL PARTS PAID IN FULL  
OR CREDIT CARD ONLY**

**ALL PRICES SUBJECT TO FLOATING STEEL AND FUEL CHARGES**

**PRICES MAY CHANGE WITHOUT NOTICE**