

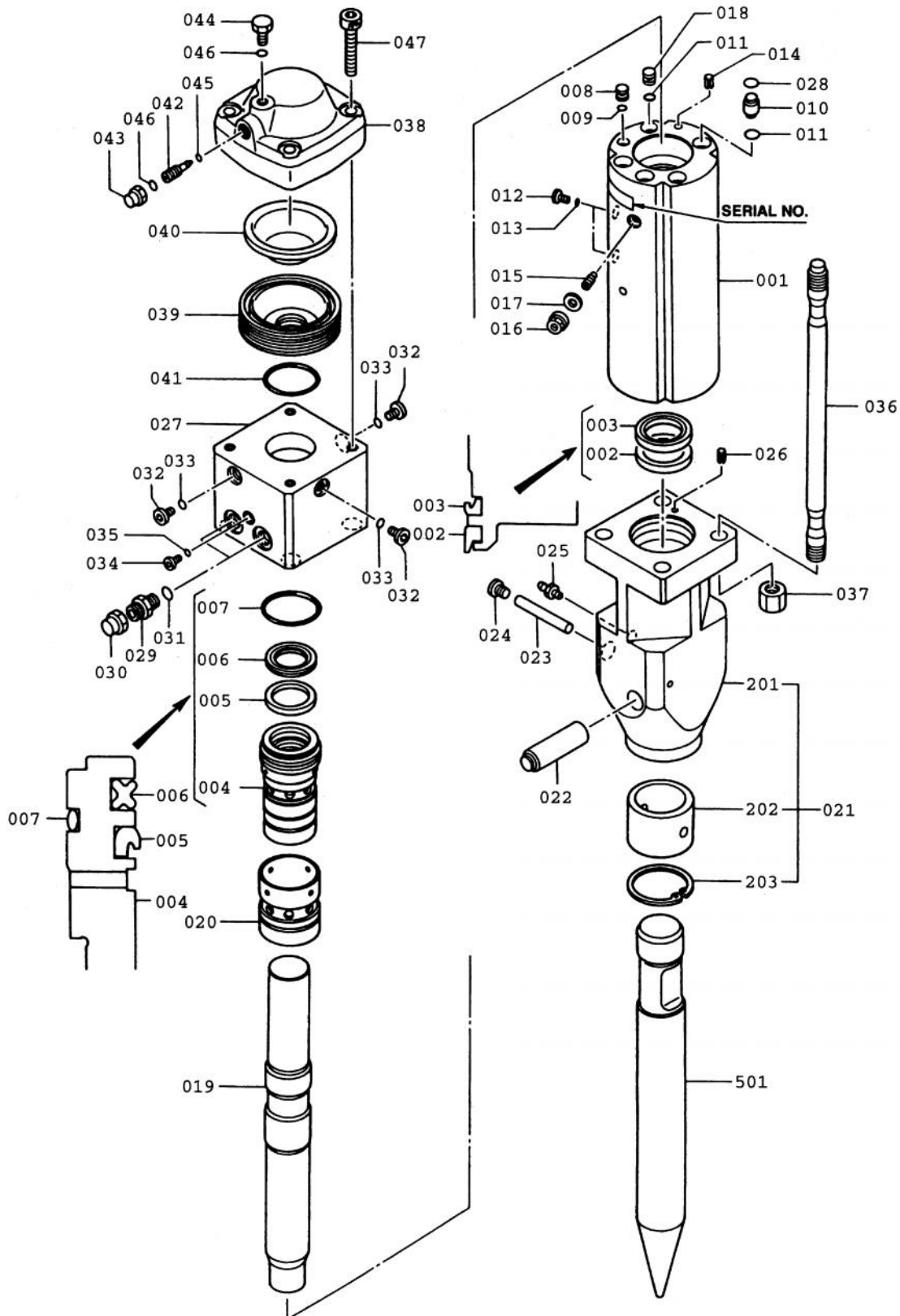
SECTION VI

PARTS LIST

***F5 Serial No. 5001 ~ & up
THREE-BOSS TLB VERSIONS***

*Revised: December, 2013
Section VI - Page # 1
KF5 Serial No. 5001 and up
KF5-K107-1*

F5 HYDRARAM **PARTS BREAKDOWN**



F5 HYDRARAM **PARTS LIST**



<u>ITEM</u>	<u>PART NUMBER</u>	<u>QTY</u>	<u>DESCRIPTION</u>	<u>ITEM</u>	<u>PART NUMBER</u>	<u>QTY</u>	<u>DESCRIPTION</u>
001	KF5-10201	1	Cylinder	025	K170312-00000	1	Grease Nipple
002	KF5-10106	1	Dust Seal [/S]	026	K154037-10025	1	Spring Pin
003	KF5-10107	1	U-Packing [/S]	027	KF5-30101	1	Back Head
004	KF5-10111	1	Seal Retainer	028	K160011-00022	4	O-Ring [/S]
005	KF5-10112	1	U-Packing [/S]	029	K15880	2	Connector [/O]
006	KF5-10114	1	Seal Ring [/S]	030	(Not Used)	2	Union Cap [/O]
007	K161021-00085	1	O-Ring [/S]	031	K160011-00018	2	O-Ring [/S]
008	KHB2R-10120	1	Plug [/S]	032	K084891-03000	3	GPF Plug
009	K160011-10010	1	O-Ring [/S]	033	K160011-00014	3	O-Ring [/S]
010	K001400-10102	4	Bushing [/S]	034	K084891-01000	1	GPF Plug
011	K160011-00022	5	O-Ring [/S]	035	K160011-00008	1	O-Ring [/S]
012	K084891-01000	2	GPF Plug	036	KF5-36201	4	Through Bolt
013	K160011-00008	2	O-Ring [/S]	037	KF5-36302	4	Hexagon Nut
014	K154037-10025	1	Spring Pin		KF5-70001	1	Accumulator Group
015	KF4-10231	1	Valve Adjuster	038	KF5-70101	(1)	Accumulator Cap
016	KF4-10233	1	Sealing Nut	039	KF5-70102	(1)	Accumulator Body
017	KHB1G-10532	1	Seal Washer [/S]	040	KHD612-07006	(1)	Diaphragm
018	KF5-10220	1	Plug	041	K161021-00075	(1)	O-Ring [/S]
019	KF5-11101	1	Piston	042	K007120-70134	(1)	Valve
020	KF5-13101	1	Valve	043	KHB2G-70121	(1)	Cap
021	KF5-20201	1	Fronthead Group	044	K07010-70030	(1)	Plug
201	KF5-20202	(1)	Bare Fronthead	045	K160011-00005	(1)	O-Ring [/S]
202	KF5-20103	(1)	Front Bushing	046	K160011-00014	(1)	O-Ring [/S]
203	K264020-00090	(1)	Snap Ring	047	K102032-20080	4	Socket Bolt
022	KF5-20206	1	Rod Retainer Pin	501	KF5-25111	1	Blunt Tip [/O]
023	KF5-20207	1	Stop Pin	501	KF5-25114	1	Chisel Bit [/O]
024	KHB4R-20108	1	Screw Plug [/S]	501	KF5-25115	1	Moil (Cone) Point

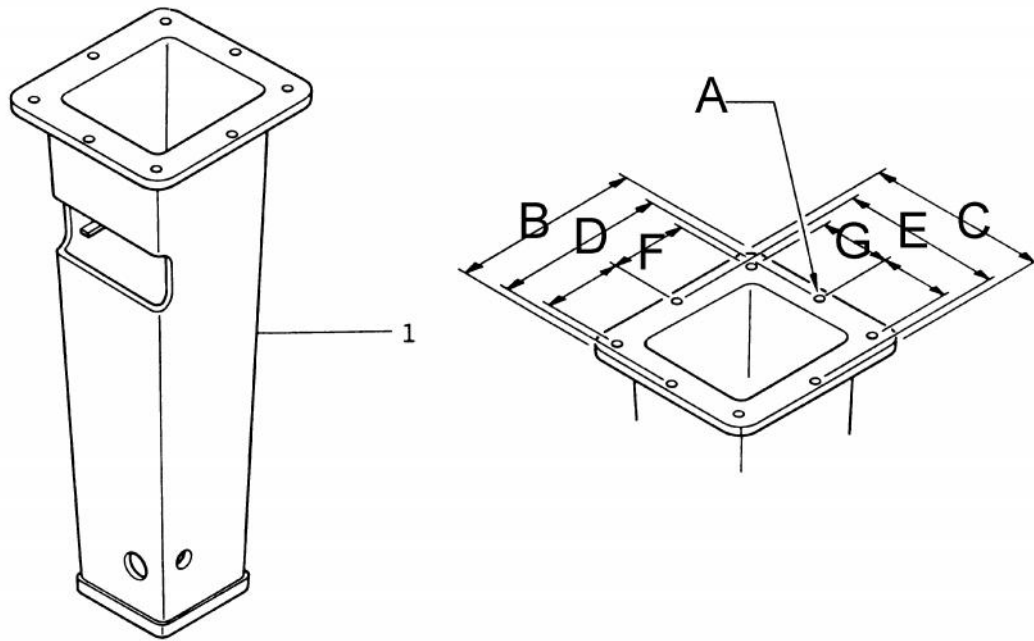
() Bracketed quantities indicate items included with the prior assembly.
 [/O] Items marked Option /O are optional depending on configuration
 [/S] Items marked Option /S are included in the KF5-92011 Seal Kit
 (Refer to Section VII for Seal Kit Details)



NOTES:

A series of horizontal dashed lines for taking notes.

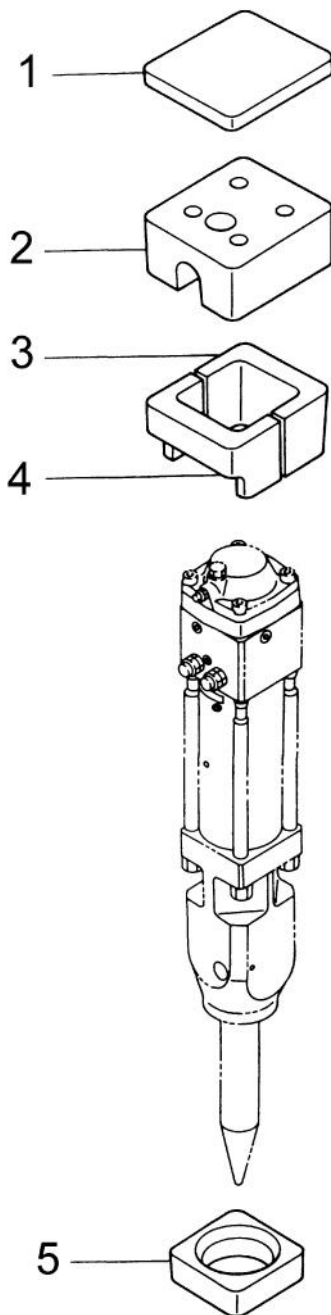
T-BOX MOUNTING **F5QT HYDRARAM**



ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	KF5-88201	1	T-Box Weldment

	<u>Inch</u>	<u>Milimeter</u>	
A	0.886	22	Bolt Hole Diameter
B	14.921	379	Flange, Long Side
C	14.921	379	Flange, Short Side
D	12.913	328	Center to Center
E	12.913	328	Center to Center
F	6.457	164	Center to Center
G	6.457	164	Center to Center

DAMPER PARTS LIST
F5QT HYDRARAM CRADLE

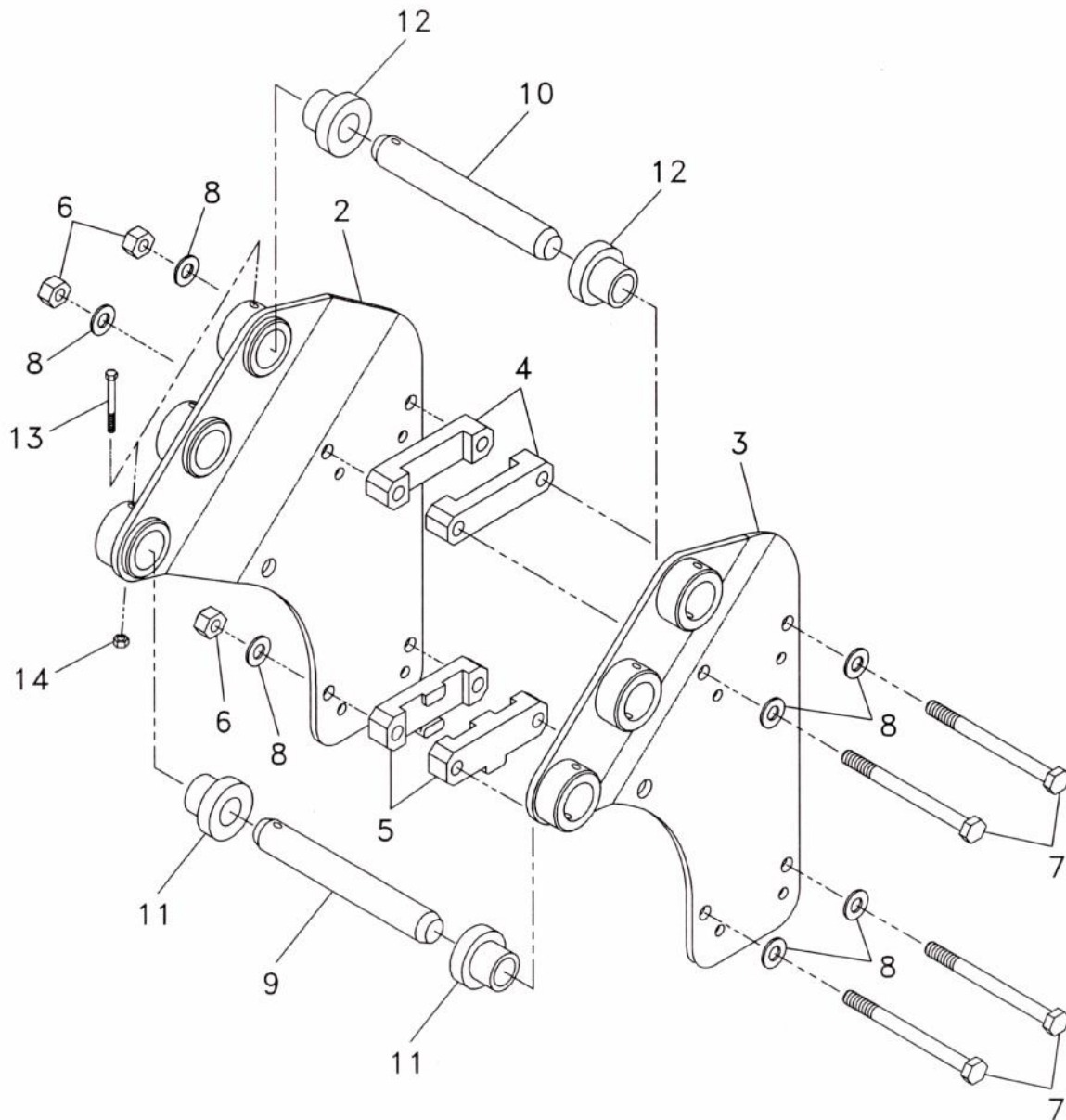


DAMPER PARTS LIST
F5QT HYDRARAM CRADLE

<i>ITEM</i>	<i>PART NUMBER</i>	<i>QUANTITY</i>	<i>DESCRIPTION</i>
1	KF5-88122	1	Top Damper
2	KF5-88121	1	Top Spacer
3	KF5-88128	1	Back Damper, Half
4	KF5-88127	1	Back Damper, Half
5	KF5-88124	1	Front Damper



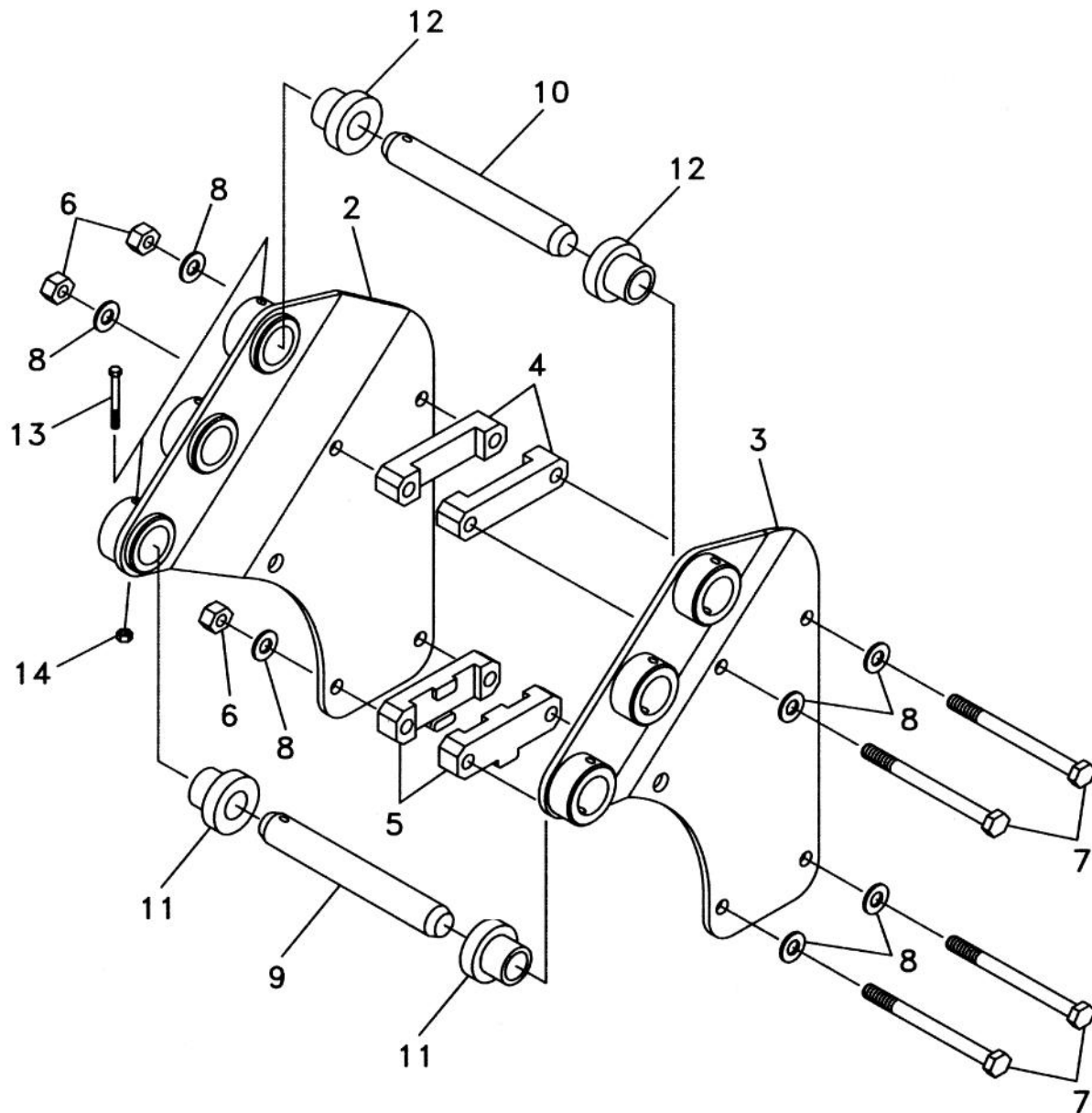
F5TLB “A” HYDRARAM **FOR TRACTOR-LOADER-BACKHOES**



F5TLB "A" HYDRARAM **FOR TRACTOR-LOADER-BACKHOES**

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	KF5B	1	Hydraulic Breaker <i>(Not Shown)</i>
2	KF50021	1	Side Plate, Left Hand
3	KF50022	1	Side Plate, Right Hand
4	KF50002	2	Set Plate "B"
5	KF50003	2	Set Plate "A"
6	K18978	4	1"-8UNC Locknut
7	KF60018	4	1"-8UNC x 11" HHCS GR.5
8	K06643	8	1" Flat Washer
9	<i>Refer to the specifications on page 13</i>	1	Mounting Pin, Dipperstick
10		1	Mounting Pin, Link
11		2	Mounting Bushing, Dipperstick
12		2	Mounting Bushing, Link
13	K06422	2	1/2" -13 x 5" Bolt
14	K07228	2	1/2" -13 UNC Locknut

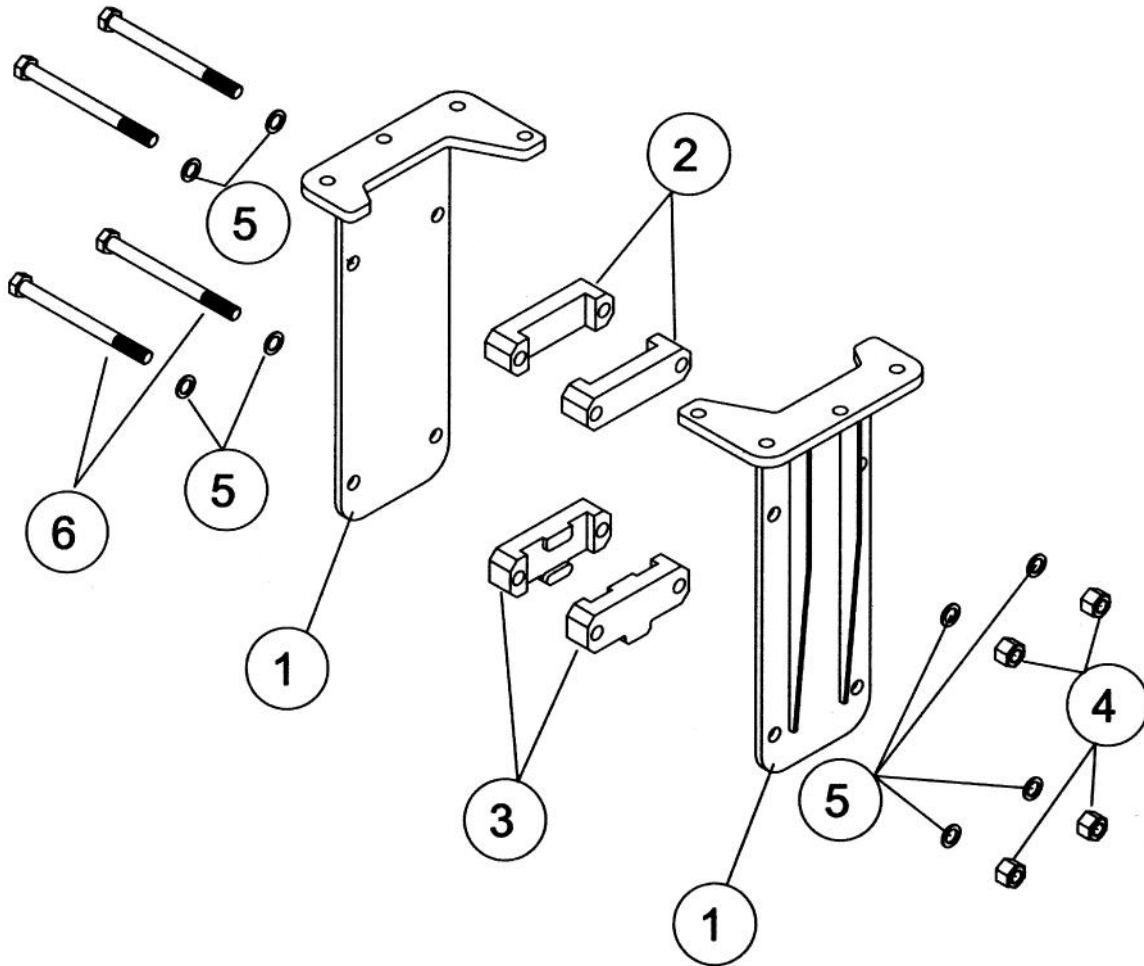
“OLD STYLE”
F5TLB HYDRARAM
FOR TRACTOR-LOADER-BACKHOES



“OLD STYLE”
F5TLB HYDRARAM
FOR TRACTOR-LOADER-BACKHOES

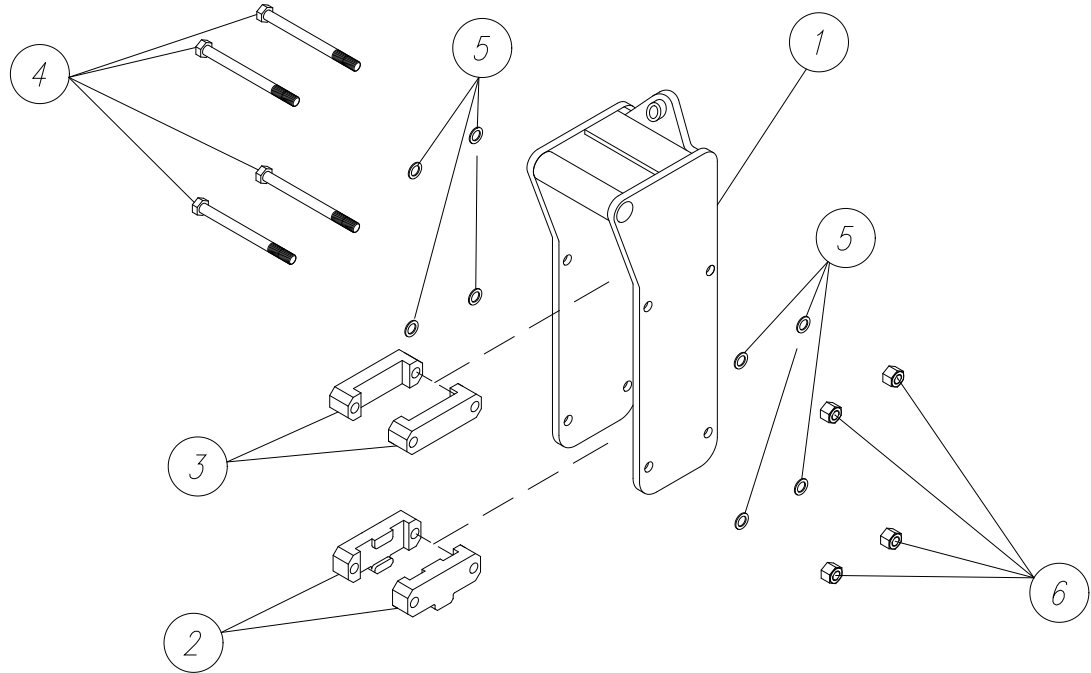
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	KF5B	1	Hydraulic Breaker <i>(Not Shown)</i>
2	KF50016	1	Side Plate, Left Hand
3	KF50017	1	Side Plate, Right Hand
4	KF50002	2	Set Plate "B"
5	KF50003	2	Set Plate "A"
6	K18978	4	1"-8UNC Locknut
7	KF60018	4	1"-8UNC x 11" HHCS GR.5
8	K06643	8	1" Flat Washer
9	<i>Refer to the specifications on page 13</i>	1	Mounting Pin, Dipperstick
10		1	Mounting Pin, Link
11		2	Mounting Bushing, Dipperstick
12		2	Mounting Bushing, Link
13	K06422	2	1/2" -13 x 5" Bolt
14	K07228	2	1/2" -13 UNC Locknut

FLANGE SIDE PLATE MOUNTING **F5FSP HYDRARAM**



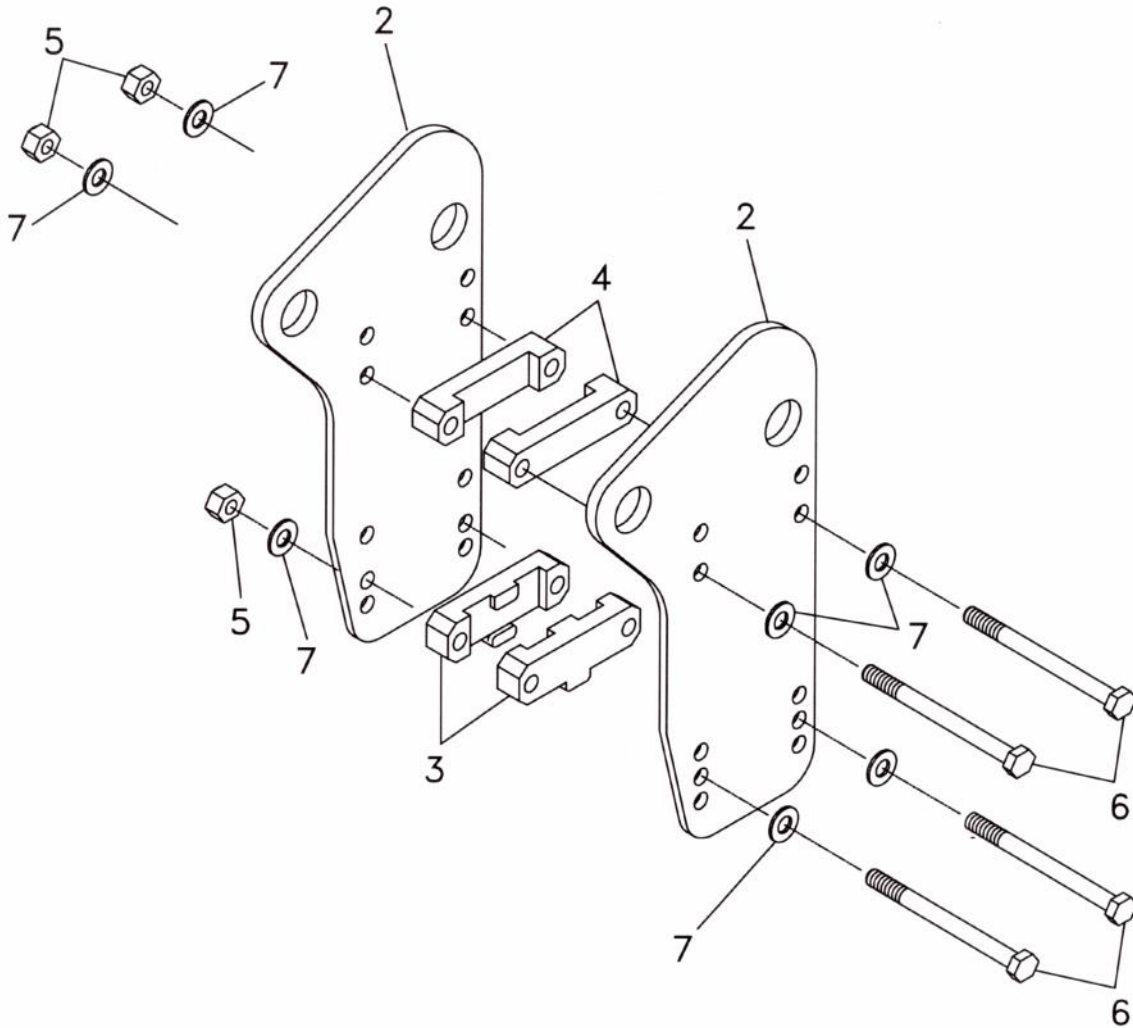
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	KF50001	2	Flange Style Side Plates
2	KF50002	2	Set Plate "B"
3	KF50003	2	Set Plate "A"
4	K18978	4	1"-8UNC Locknut
5	K06643	8	1" Flat Washer
6	KF60018	4	1"-8UNC x 11" HHCS GR.5

CP 027 MOUNTING BRACKET **F5CP HYDRARAM**



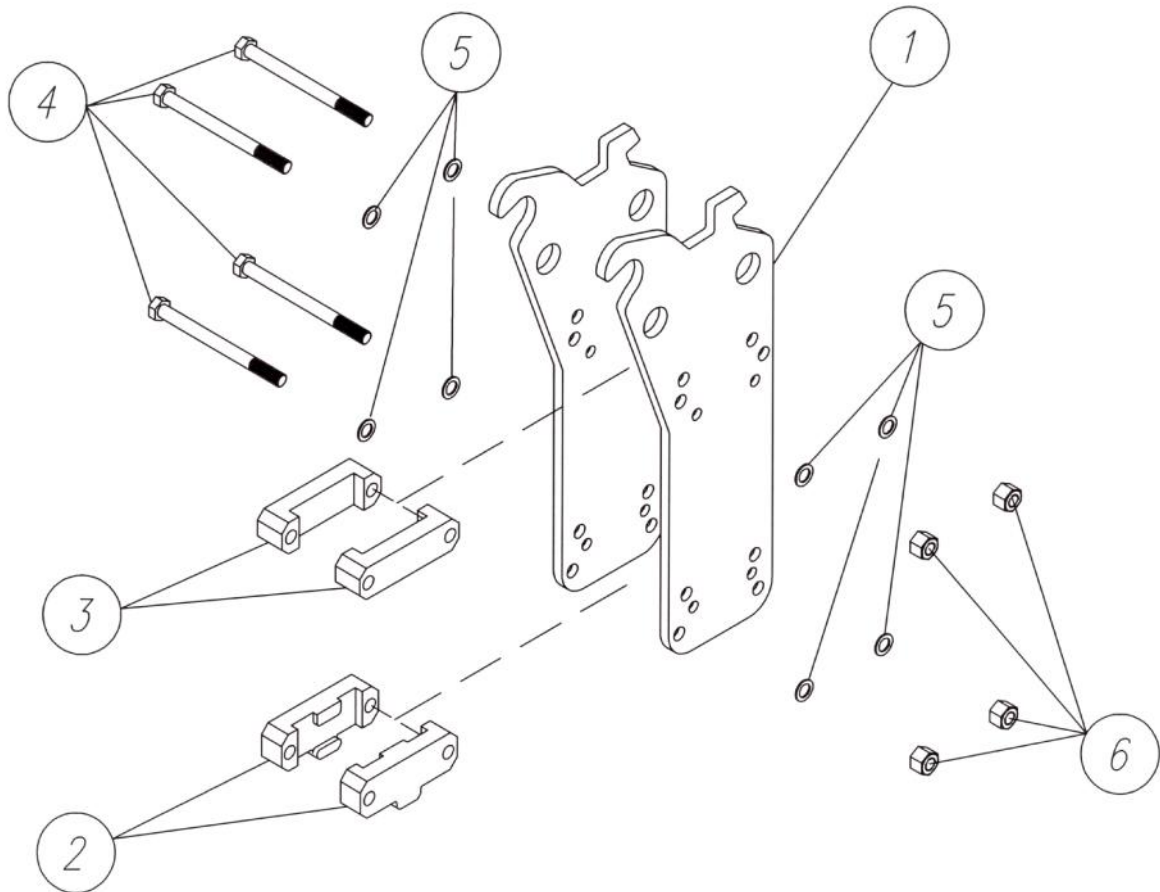
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	K28401	1	CP Breaker Bracket
2	KF50002	2	Set Plate "B"
3	KF50003	2	Set Plate "A"
4	KF60018	4	1"-8 UNC x 11.00" HHCS, Gr. 5
5	K06643	8	1" Flat Washer
6	K02584	4	1"-8 UNC Locknut

MINI-EXCAVATOR SIDE PLATE MOUNTING **F5ME HYDRARAM**



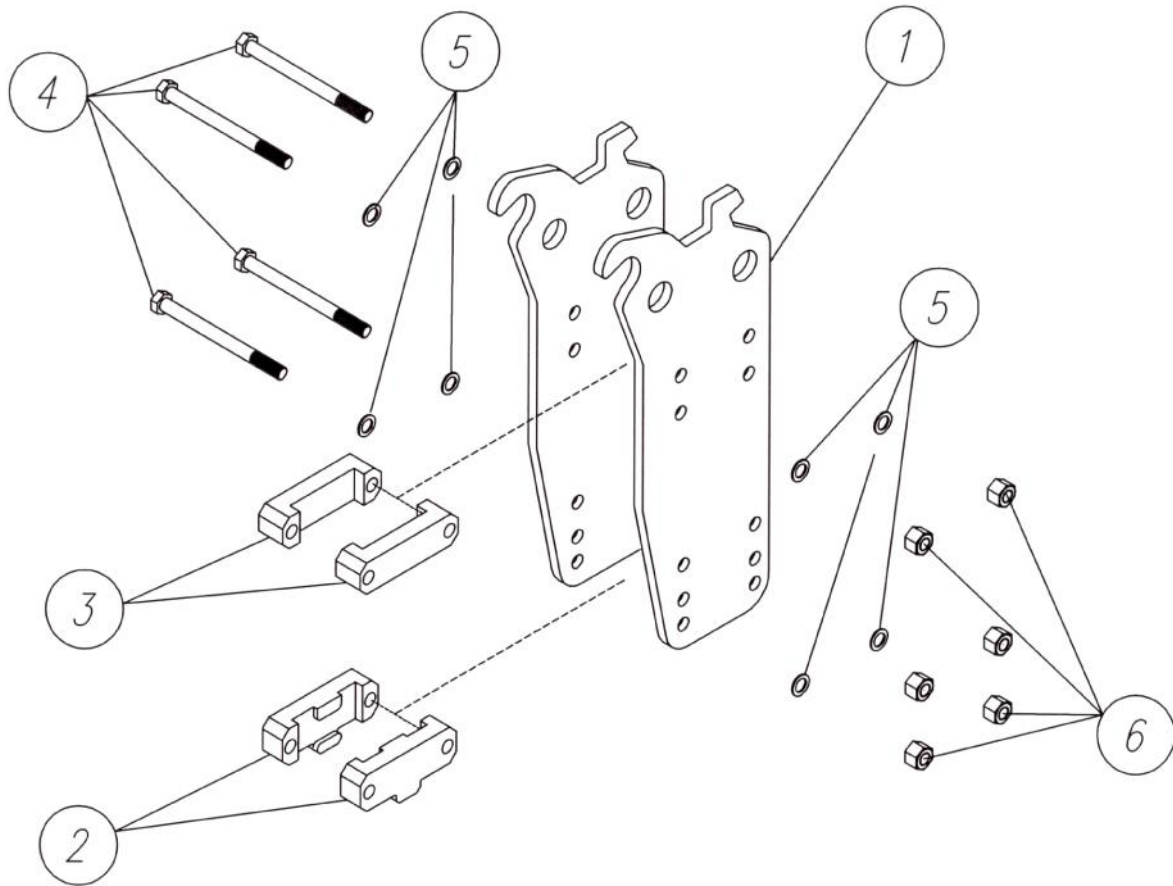
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	K28216	2	ME Side Plate
2	KF50002	2	Set Plate "B"
3	KF50003	2	Set Plate "A"
4	KF60018	4	1"-8 UNC x 11.00" HHCS, Gr. 5
5	K06643	8	1" Flat Washer
6	K02584	4	1"-8 UNC Locknut

WB 27/35 SIDE PLATE MOUNTING **F5WBME HYDRARAM**



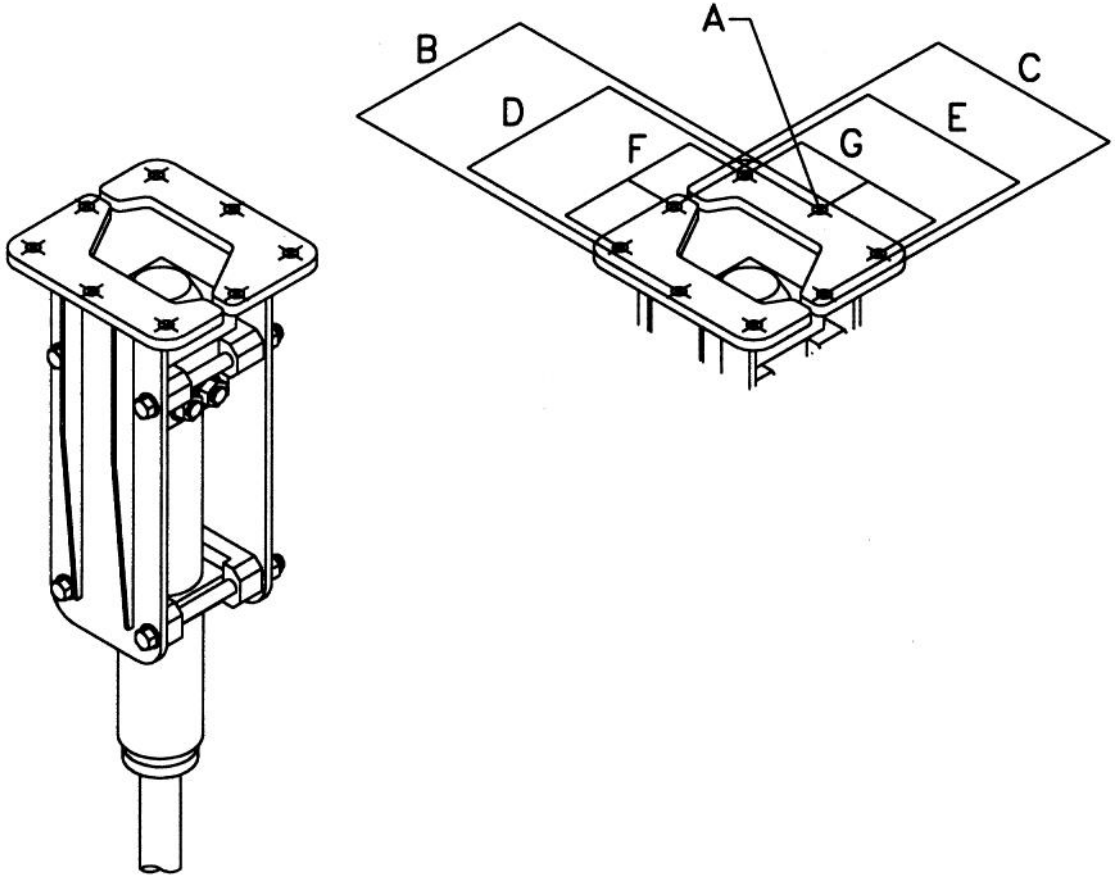
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	KF40076	2	WBME Side Plate
2	KF50002	2	Set Plate "B"
3	KF50003	2	Set Plate "A"
4	KF60018	4	1"-8 UNC x 11.00" HHCS, Gr. 5
5	K06643	8	1" Flat Washer
6	K02584	4	1"-8 UNC Locknut

WB 50 SIDE PLATE MOUNTING **F5WB50ME HYDRARAM**



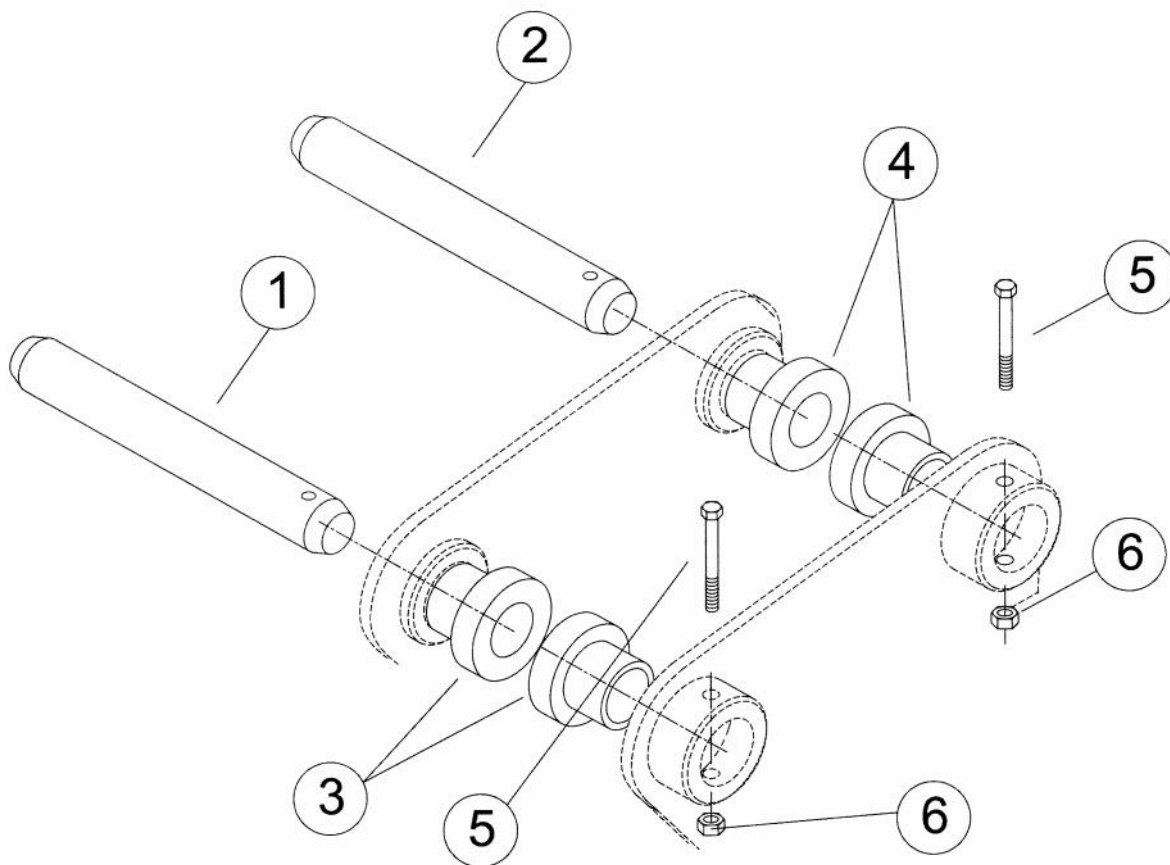
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	KF40078	2	WB50ME Side Plate
2	KF50067	2	Set Plate "B"
3	KF50066	2	Set Plate "A"
4	K18498	4	1"-8 UNC x 12.00" HHCS, Gr. 5
5	K06643	8	1" Flat Washer
6	K02584	4	1"-8 UNC Locknut

FLANGE SIDE PLATE MOUNTING **F5FSP HYDRARAM**



	<u>Inch</u>	<u>Milimeter</u>	
A	0.886	22	Bolt Hole Diameter
B	14.921	379	Flange, Long Side
C	14.921	379	Flange, Short Side
D	12.913	328	Center to Center
E	12.913	328	Center to Center
F	6.457	164	Center to Center
G	6.457	164	Center to Center

MOUNTING PIN KIT FOR
F5Qt AND F5 TLB VERSIONS



MOUNTING PIN KIT FOR F5Qt AND F5TLB VERSIONS

Serial Number

Base Machine Make: _____

Base Machine Model: _____

Dipperstick Pin Diameter: _____

Link Pin Diameter: _____

Dipperstick Width: _____

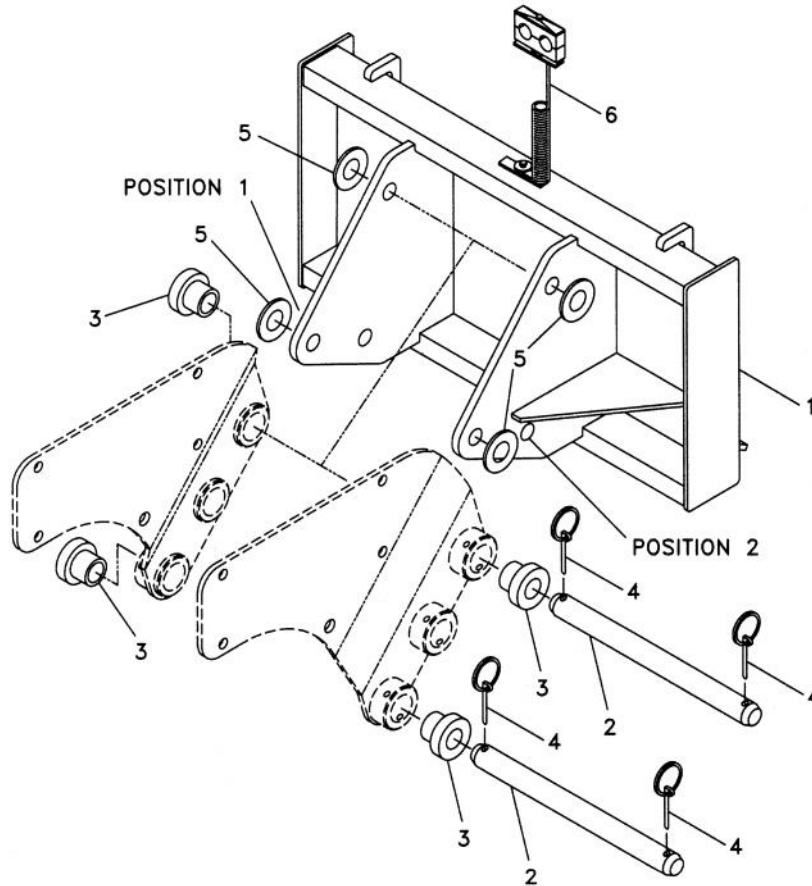
Link Pin Width: _____

MOUNTING KIT PART NO: _____

Consisting of the following:

<i>ITEM</i>	<i>PART NUMBER</i>	<i>QUANTITY</i>	<i>DESCRIPTION</i>
1	_____	1	_____ Dia. Mounting Pin x 17" Long
2	_____	1	_____ Dia. Mounting Pin x 17" Long
3	_____	2	_____ Dia. Mounting Bushing x _____ lg.
4	_____	2	_____ Dia. Mounting Bushing x _____ lg.
5	<u>K06422</u>	2	1/2" -13 x 5" Bolt
6	<u>K07228</u>	2	1/2" -13 UNC Locknut

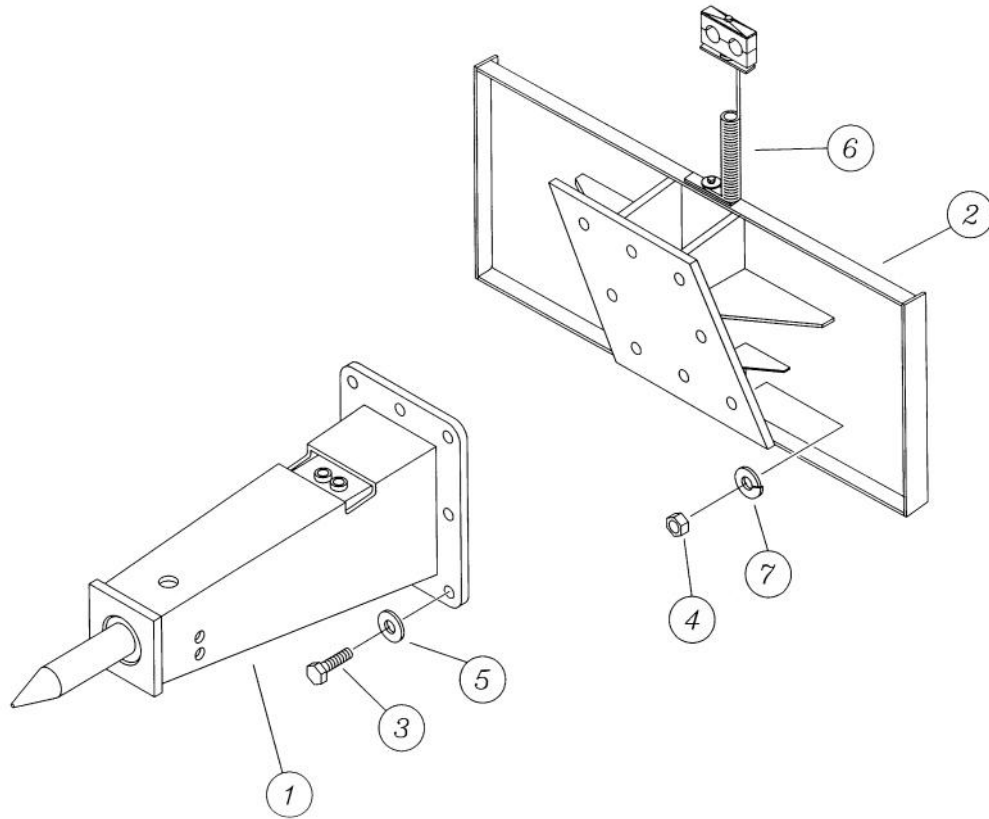
TWO-POSITION (PIN-ON) **UNIVERSAL QUICK ATTACH BRACKET** **FOR F5TLB HYDRARAMS**



ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	K26675	1	Universal Quick Attach Bracket
	K26676	---	Quick Attach Bracket for Case Unloaders
2	K19360	2	◆ Mounting Pin, 1 ½" x 23"
3	K14129	4	◆ Mounting Bushing, 1.51"Ø x 2.45"
4	K07218	4	Retainer Lynch Pin
5	K02467	4	Flat Washer, 1 ½" ID
	K14951	1	Hose Saver Spring Bracket, ¾" Hose

◆ **NOTE:** The bushings are installed on the outside of the hammer frame, and the pins extend through the attachment bracket. This configuration requires extra-long pins as noted.

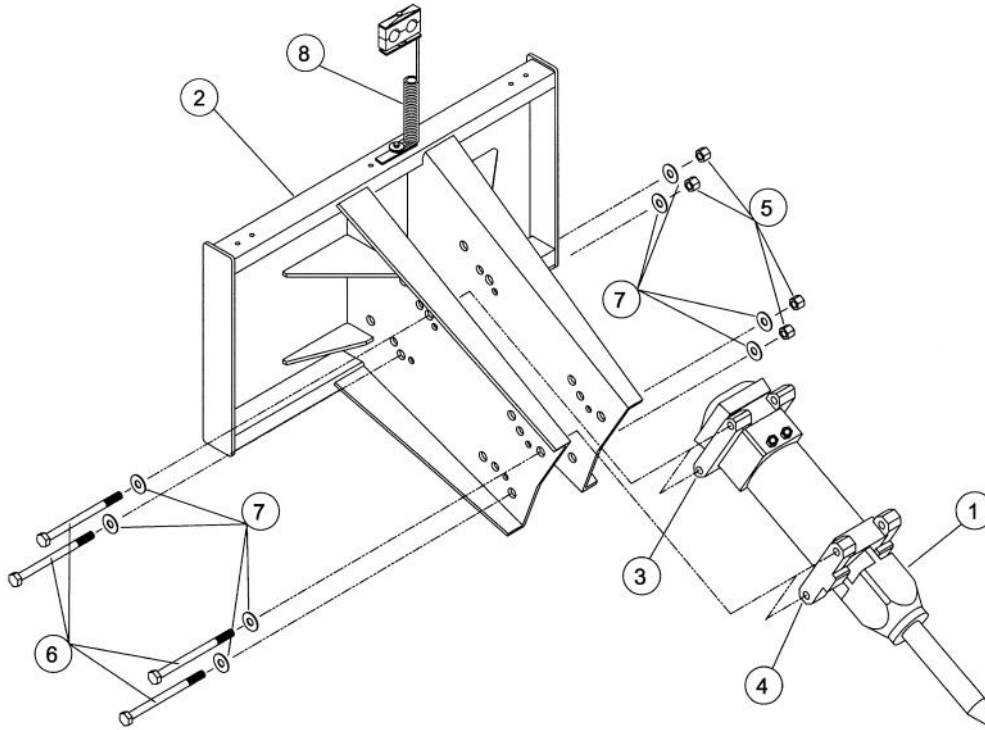
BOLTED ONE-PIECE RIGID QUICK ATTACH BRACKET For F5QT HYDRARAM



ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	KF5QT (or KF5FSP)	1	HydraRam, T-Box or Flange Style*
2	K26670	1	Universal Quick Attach Bracket
	K26672	---	Quick Attach Bracket for Case Unloaders
3	KF430403	8	3/4 - 10 UNC Bolt x 3 1/4" Long (Grade 8)
4	K02025	8	3/4 - 10 UNC Nut
5	K10278	8	3/4" Hardened Washer
6	K14951	1	Hose Saver Spring Bracket, 3/4" Hose
7	K10194	8	3/4" Lock Washer
	K19611	2	Whip Hose, 100" (Not Shown)

* The Loader Attachment Plate shown here can be used with EITHER the T-Box or Flange mounting.

OPEN STYLE ONE-PIECE RIGID **QUICK ATTACH BRACKET** **For F5SS HYDRARAM**



ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	KF5B	1	Hammer, Bare
2	K26660	1	Universal Quick Attach Bracket
	K26661	---	Quick Attach Bracket for Case Unloaders
3	KF50002	2	Set Plate (B)
4	KF50003	2	Set Plate (A)
5	K18978	4	1\"- 8 UNC NC Lock Nut
6	K18155	4	1\"- 8 UNC x 10 ½\" Hex Head Bolt
7	K06643	8	1\" Flat Washer
8	K14951	1	Hose Saver Spring Bracket, ¾\" Hose
	K19611	2	Whip Hose, 100\" (Not Shown)

SERVICE TOOL KIT

P/N KBM590001

Furukawa Rock Drill USA includes a tool kit with every new hydraulic breaker. This tool kit contains many of the special tools and wrenches required to perform normal maintenance or repairs on the breaker. This is a basic tool kit, and is by no means complete or comprehensive, but it does contain some specialized tools, and wrench sizes not commonly found in the field. The following illustration depicts a typical tool kit and its contents:

