

HL295 Hydro Loader Kit

Version: 04.16

HL295 - Hydro Loader Kit

HL295

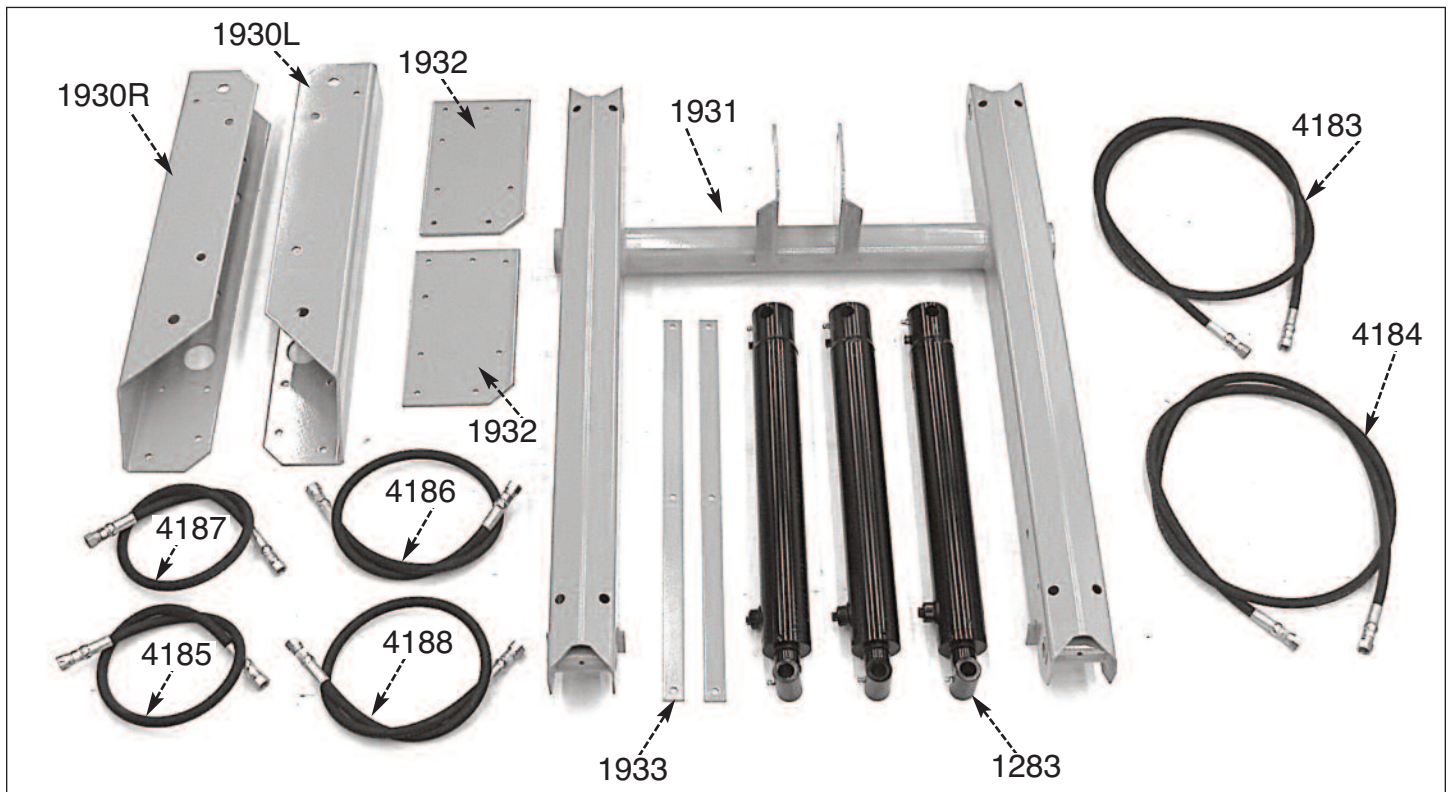
NOTE! Assembly Instructions if HL295 is purchased at the time of MAGNATRAC order: Skip Steps 1 thru Step 24, as these items have been factory installed. Start on Step 25!!!

NOTE! Assembly Instructions if HL295 is a parts order: The following instructions [below] are for assembling your HL295 Loader Kit are to be used after you complete the instructions for your Power Pack Kit PP35... complete all Steps up to Step 15 of your Power Pack Kit. **Then begin the final assembly of your HL295 Loader Kit. Parts mentioned in instructions may be part of the PP35.**

****[Some items below and the next page may have been factory installed at the time of your MAGNATRAC order!]**

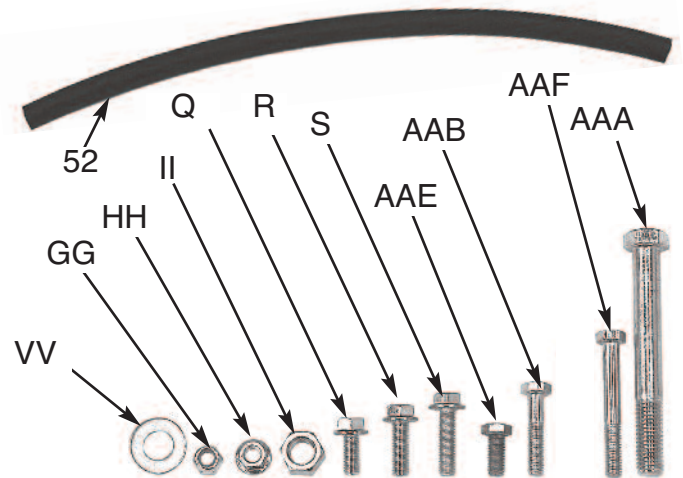
PARTS LIST

4183	Hose, 81" Arm Rod End [Bottom]	1283	Cylinder (3)
4184	Hose, 81" Arm Cylinder End [Top]	1930L	Left Upright**
4185	Hose, 33" Cylinder End	1930R	Right Upright**
4186	Hose, 38" Rod End	1931	Arm Assembly
4187	Hose, 33" Cylinder End	1932	Push Plate (2)**
4188	Hose, 38" Rod End	1933	Strip (2)**

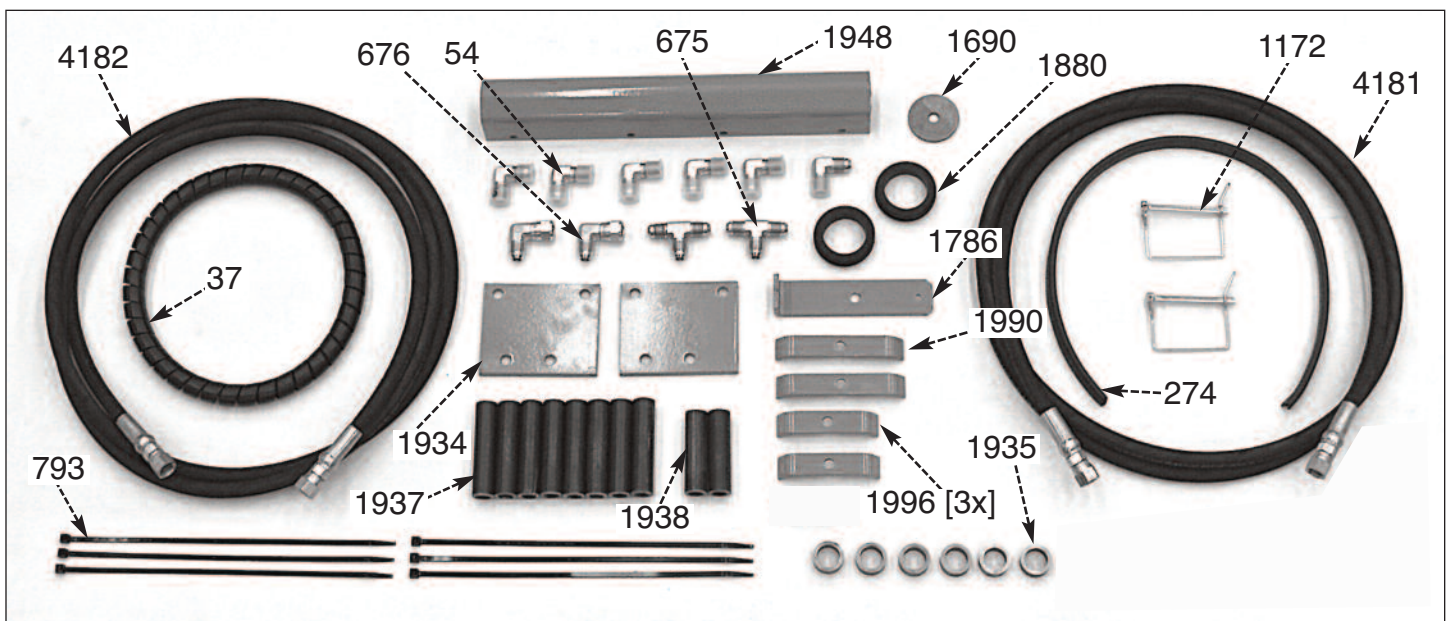


PARTS and FASTENER LIST

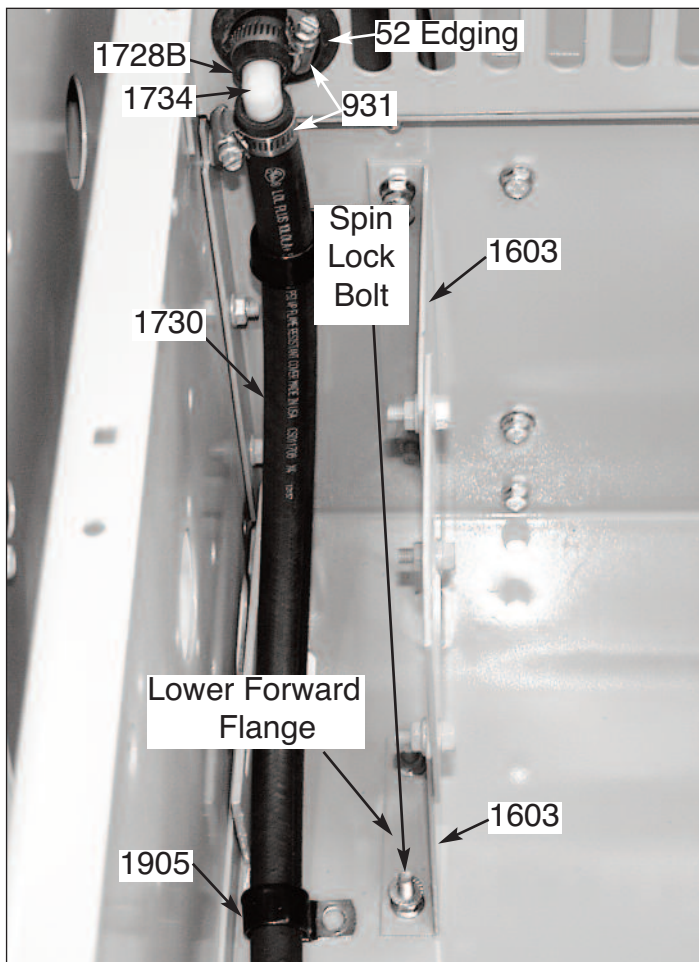
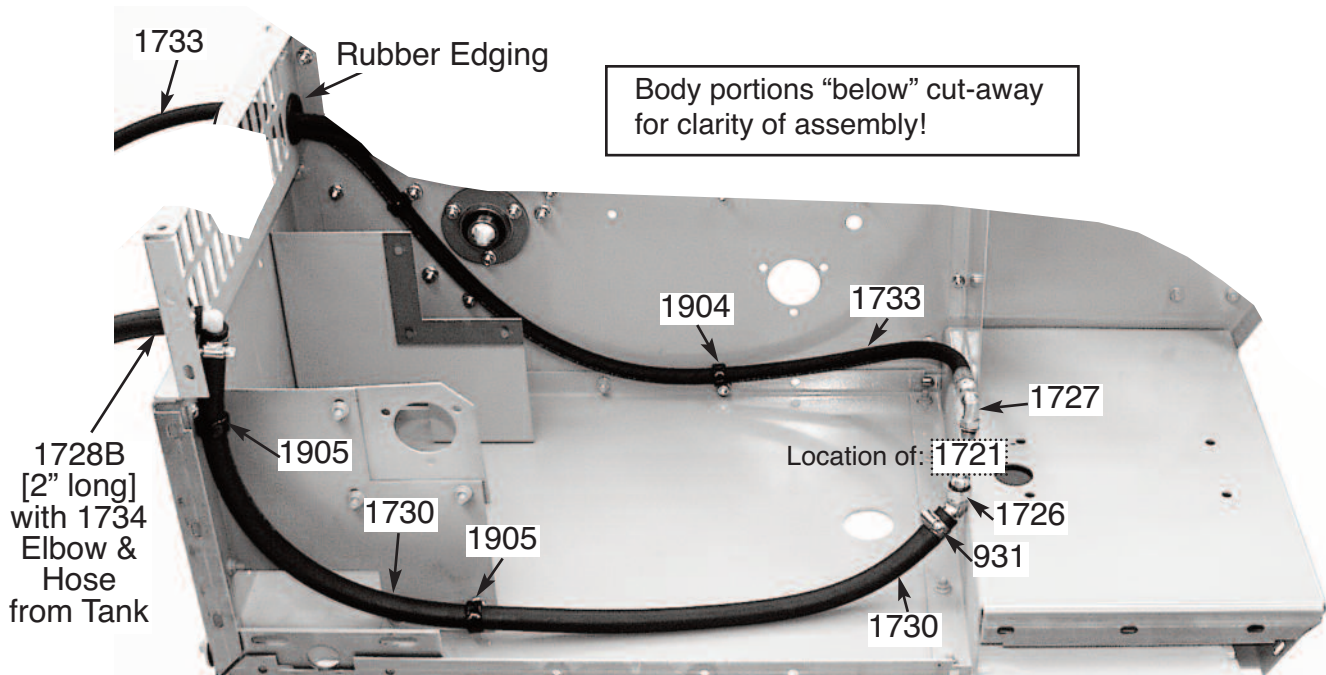
37	Spiral Wrap - 24"		AAA	1/2-13x4-1/4 Bolt	(10)
52	Edging, rubber - 12-3/8"***		AAB	5/16-18x1-1/2 Bolt	(3)
54	Elbow - threaded ends	(6)	AAE	5/16-18x3/4 Bolt	(2)
57	Cap [not shown]	(2)	AAF	5/16-18x2-1/2 Bolt	(1)
274	Edging, plastic - 24"		S	5/16-18x1-1/4 Spin Lock Bolt	(2)
673A	Grease Zerk [Loader Arm]	(4)	R	5/16-18x1 Spin Lock Bolt	(8)
675	"T" Fitting - threaded ends	(2)	Q	5/16-18x3/4 Spin Lock Bolt	(27)
676	Elbow - coupling & threaded end	(2)	II	1/2-13 Dot Lock Nut	(10)
793	Zip Tie -11"	(6)	HH	5/16-18 Spin Lock Nut	(37)
1010C	Washer	(8)	GG	5/16-18 Nylon Lock Nut	(4)
1938	Tube - 3/4OD x 1/2IDx2-3/4 long	(2)	VV	1/2 Flat Washer	(10)
1172	Lynch Pin - 1/4 dia. Pin	(2)			
1672	Washer - 11/16 OD x 3/8 ID x 1/8				
1690	Washer - 1-3/4OD x 5/16ID x 3/16				
1786	Bracket				
1880	Grommet - 1-1/2 OD	(2)			
1934	Spacer Plate	(2)			
1935	Spacer - 1OD x 3/4ID x 7/16 long	(6)			
1937	Tube - 3/4OD x 1/2ID x 3-1/4 long	(8)			
1948	Cylinder Lock				
1990	Clip - 4-1/4" long	(2)			
1996	Clip - 3-3/8" long	(3)			
4181	Hose - 121" Bucket Cylinder End [Bottom]				
4182	Hose - 121" Bucket Rod End [Top]				



NOTE: Nut & Bolt terms "Spin Lock" and "Flange" are interchangeable!



SPECIAL NOTE: In the following Assembly Instructions you'll be told not to fully tighten "most" Nuts & Bolts... this allows "flexibility of position" of components and easier assembly of the remaining parts. At the end of assembly, you'll go back and "finish tighten" ALL assembled Nuts & Bolts.

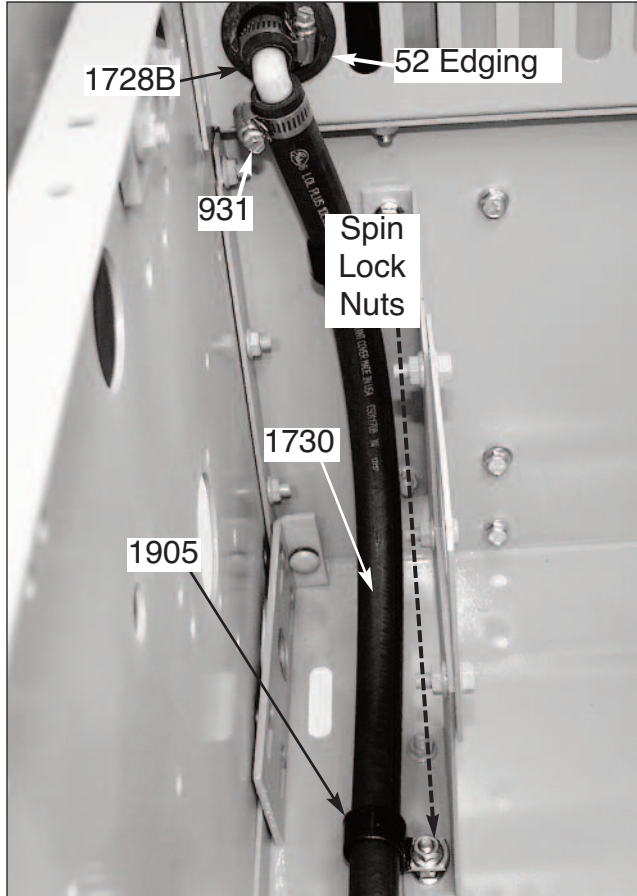


NOTE: The following instructions [below] for assembling your HL295 Loader Kit are to be used after you complete the instructions for your Power Pack Kit PP35... complete all Steps up to Step 15 of your Power Pack Kit. **Then...**

STEP 1. Remove the Spin Lock Bolt from the "lower forward" flange of #1603 Right Support. From "outside" the Body, replace this Bolt with 5/16" x 1-1/2" long Spin Lock Bolt and secure "inside" with Spin Lock Nut... tighten securely! Screw a second Spin Lock Nut [flange out] over threads of Bolt... allow 7/16" of thread to show. [Check Photo for location and orientation of the above Bolt.]

STEP 2. Assemble #1730 & #1728B Hoses together with #1734 - 90 degree Elbow and two #931 Hose Clamps... "center" Clamp and tighten... photo at left!

VERY IMPORTANT: Some of the following “Steps” will have accompanying photos showing the Step you are completing PLUS a future Step already completed. Don’t be confused that you haven’t completed the Step the photo shows completed... seeing this “extra” completed step is shown to help you orient yourself to properly complete the Step at hand!

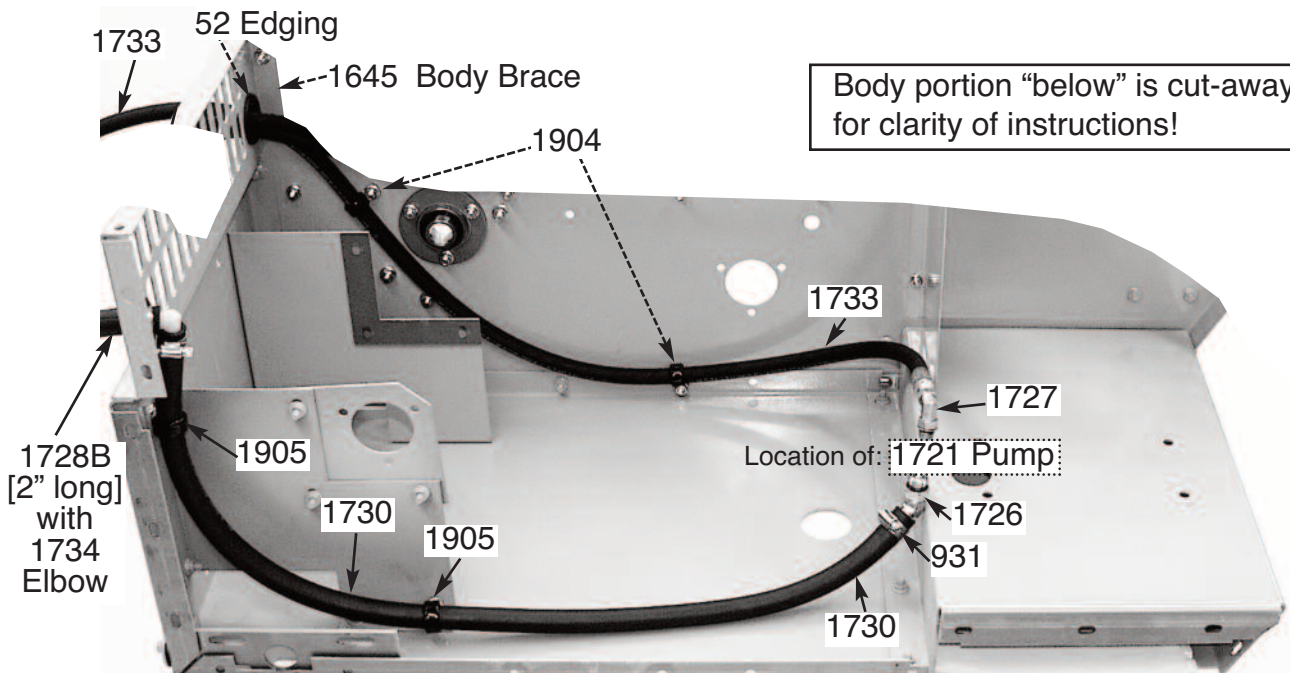


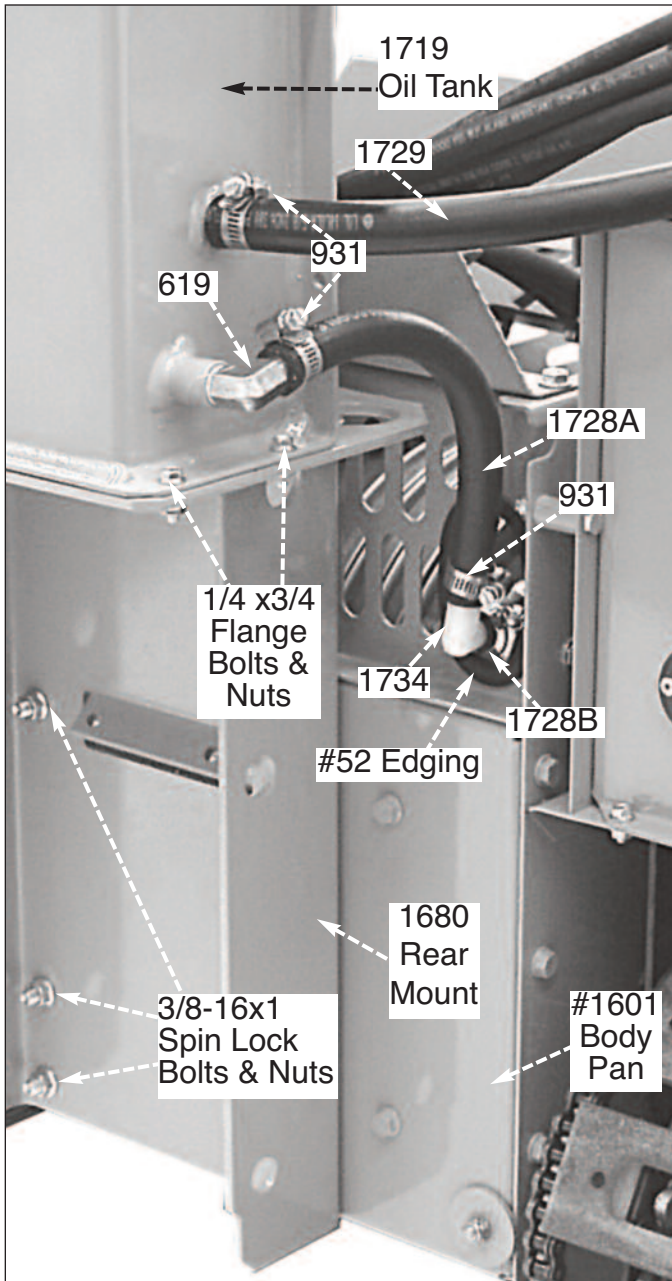
STEP 3. From “inside” Body slide remaining end of #1728B Hose through #52 Edging. Slip #1905 Coated Clip over remaining end of #1730 Hose... Photo at left.

STEP 4. With #931 Hose Clamp (of #1730 Hose) against “inside face” of #52 Edging, align #1905 Coated Clip over threads of the Bolt installed in Step #1 above. Secure #1905 Coated Clip with Spin Lock Nut... finger tighten... See Photo at left and below.

STEP 5. Slip a #931 Hose Clamp over remaining end of #1730 Hose and slip that end onto the #1726 Fitting below of #1721 Pump... tighten clamp only. Attach end of #1733 Hose to #1727 Fitting above Pump... tighten Hose only.

STEP 6. Slip remaining end of #1733 Hose through “hole” lined with #52 Edging on left side of #1645 Body Brace. Using two #1904 Coated Clips secure Hose... finger tighten Bolts.





STEP 7. Using six 3/8-16x1 Spin Lock Bolts and Nuts mount #1680 Rear Mount to “rear face” of #1601 Body Pan... tighten!

STEP 8. Using four 1/4” x 3/4” long Flange Bolts and Flange Nuts mount the #1719 Oil Tank to “top rear” of the #1680 Rear Mount...tighten!

STEP 9. Slip a #931 Hose Clamp over remaining end of #1728B Hose protruding from Grommet in Rear Brace. Insert one end of a #1734 Elbow into #1728B Hose.

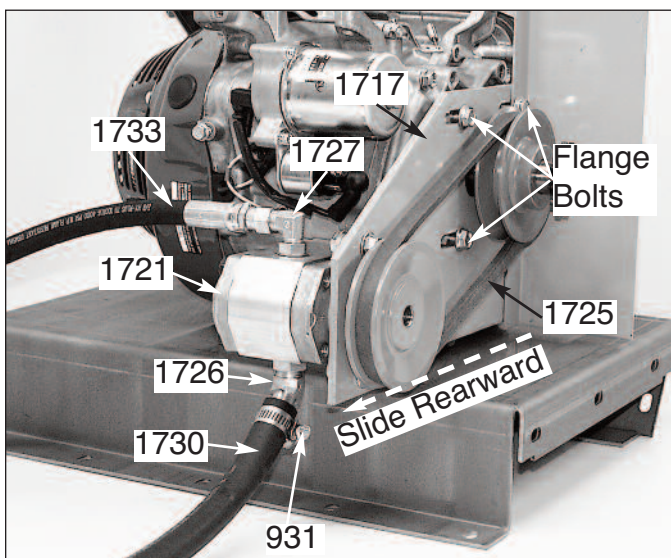
STEP 10. Wrap a few layers of Teflon Tape around the threads of a #619 Fitting. Install Fitting in lower right rear threaded tube of #1719 Oil Tank. Turn to seal connection such that the end of Fitting is pointing forward and slightly above level... check Photo at left.

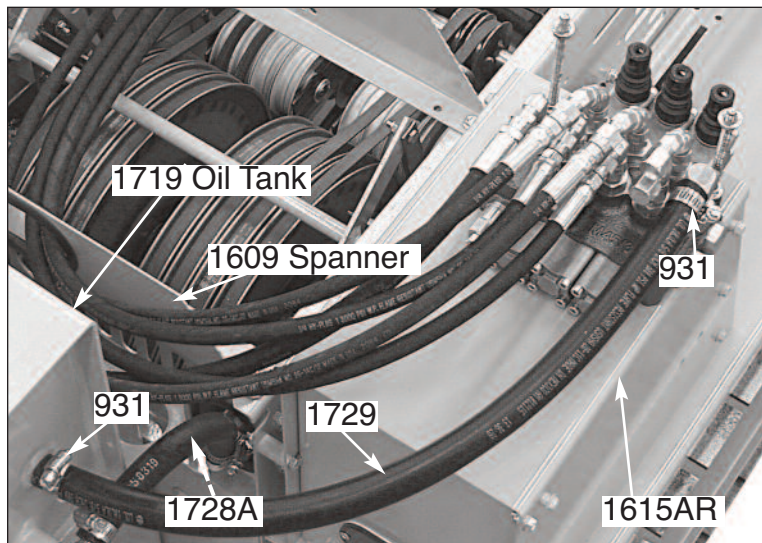
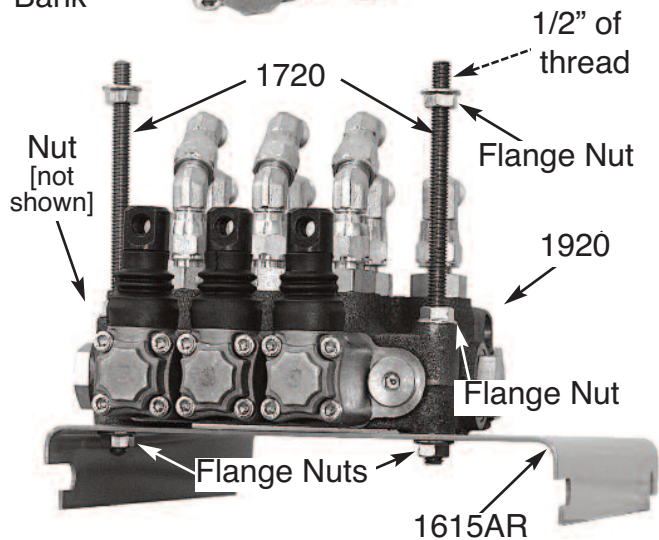
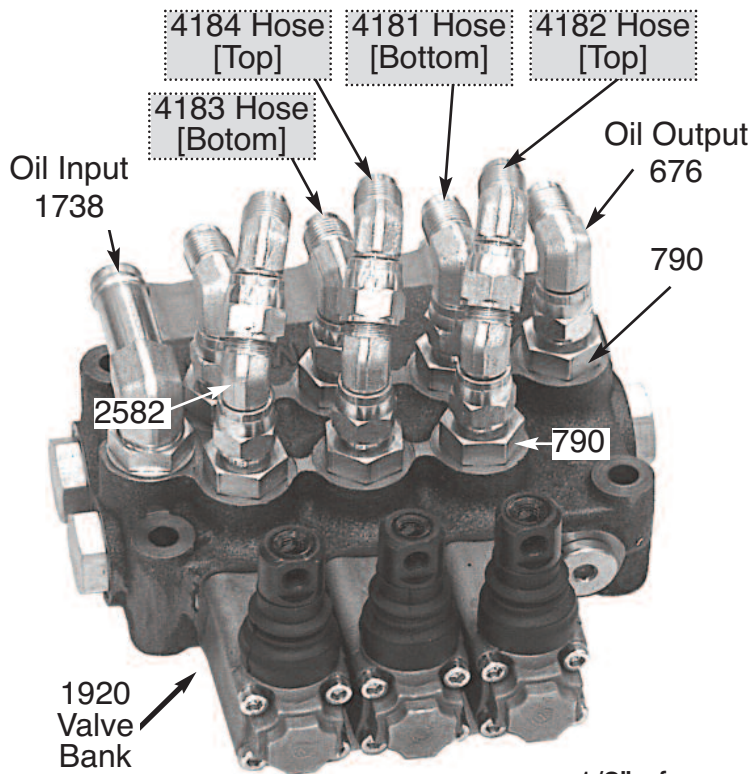
STEP 11. Slip one #931 Hose Clamp around each end of #1728A Hose. Attach one end of #1728A Hose to #619 Fitting on #1719 Tank and the other to remaining #1734 Elbow... tighten both Hose Clamps.

STEP 12. Check that #1727 - 90 deg. Fitting on “top port” of Pump points toward “left” Body Wall and #1726 - 45 deg. Fitting on underside port of Pump points to “right rear” Body corner. [NOTE: Do not tighten lock-nut of either of these Fittings at this time... Check Photo at left.

STEP 13. Slide #1717 Plate “rearward” to tighten #1725 Belt and secure by tightening the four “fine thread” Flange Bolts.

STEP 14. At “outside” right rear of Body, attach 1728A Hose to the 1734 Elbow and insert remaining Elbow “end” into “protruding” 1728B Hose. Secure outside with 931 Hose Clamp.





STEP 15. Screw #1738 Fitting into threaded port on right side of #1920 Valve Bank. Turn ... stop with tube of Fitting pointing directly rearward... tighten lock-nut on Fitting.

STEP 16. Screw seven (7) #790 Straight Fittings into the remaining seven threaded holes... tighten. [3 in the front row and 4 in the rear row]

STEP 17. Screw four (4) #676 Right Angle Fittings over each of the *rearward* four #790 Fittings and point them directly *rearward*... tighten.

STEP 18. Screw three (3) #2582 45 deg Fittings on the remaining three *forward* #790 Fittings and point them rearward... tighten.

STEP 19. Screw a second #2582 Fitting on the three #2582 Fittings installed above... point them rearward and tighten.

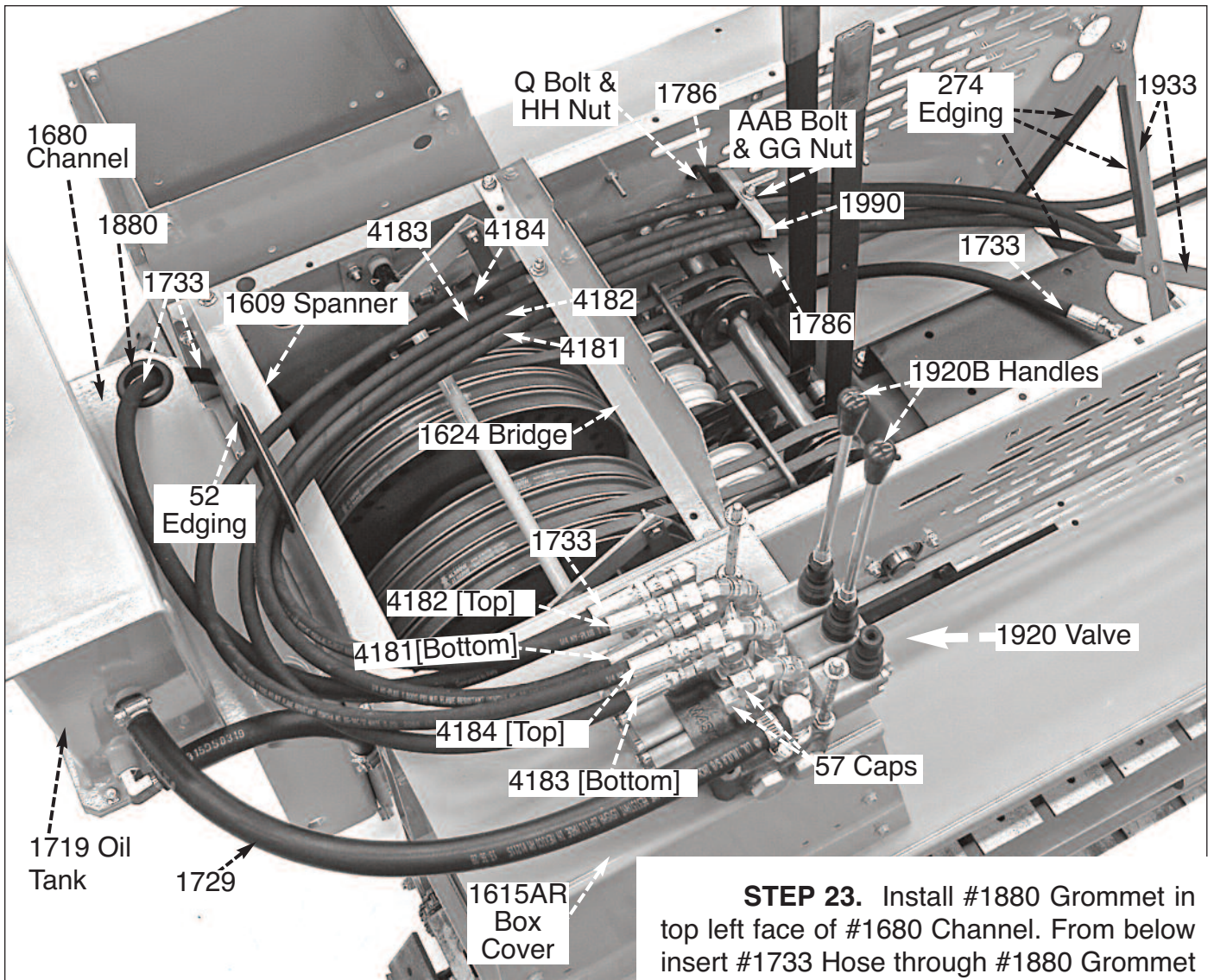
NOTE: All Fittings installed *above* should point to the rear... Photo above has them in different positions to clarify assembly!

STEP 20. Slip a #931 Hose Clamp over each end of #1729 Hose. Slip one end of Hose over "Tube" on right side of #1719 Oil Tank and connect remaining Hose end onto #1738 Fitting mounted to right side of Valve. Center each #931 Clamp... tighten both!

STEP 21. Mount #1920 Valve over two 5/16" holes on *forward end* of #1615 AR Right Cover using #1720 Threaded Rods as bolts.

Flange Nuts are mounted flush with each Shaft end "under" Cover. A 2nd Nut is screwed on both threaded Rods from above to hold Valve..."square" with #1615AR Cover.

STEP 22. Lastly, apply a Flange Nut upside-down on each Rod leaving 1/2" of thread exposed. Check #1615AR Box Cover is closed and in it's new operating position!



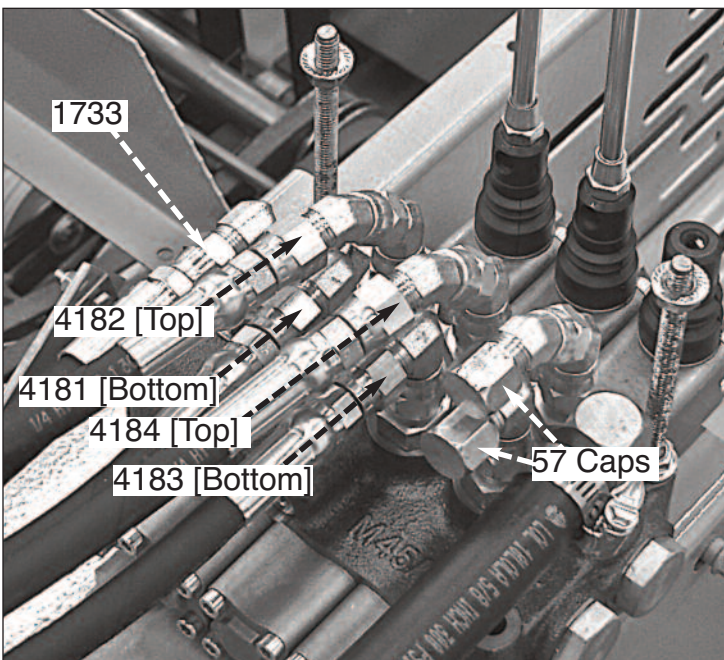
STEP 23. Install #1880 Grommet in top left face of #1680 Channel. From below insert #1733 Hose through #1880 Grommet and connect with #1920 Valve.

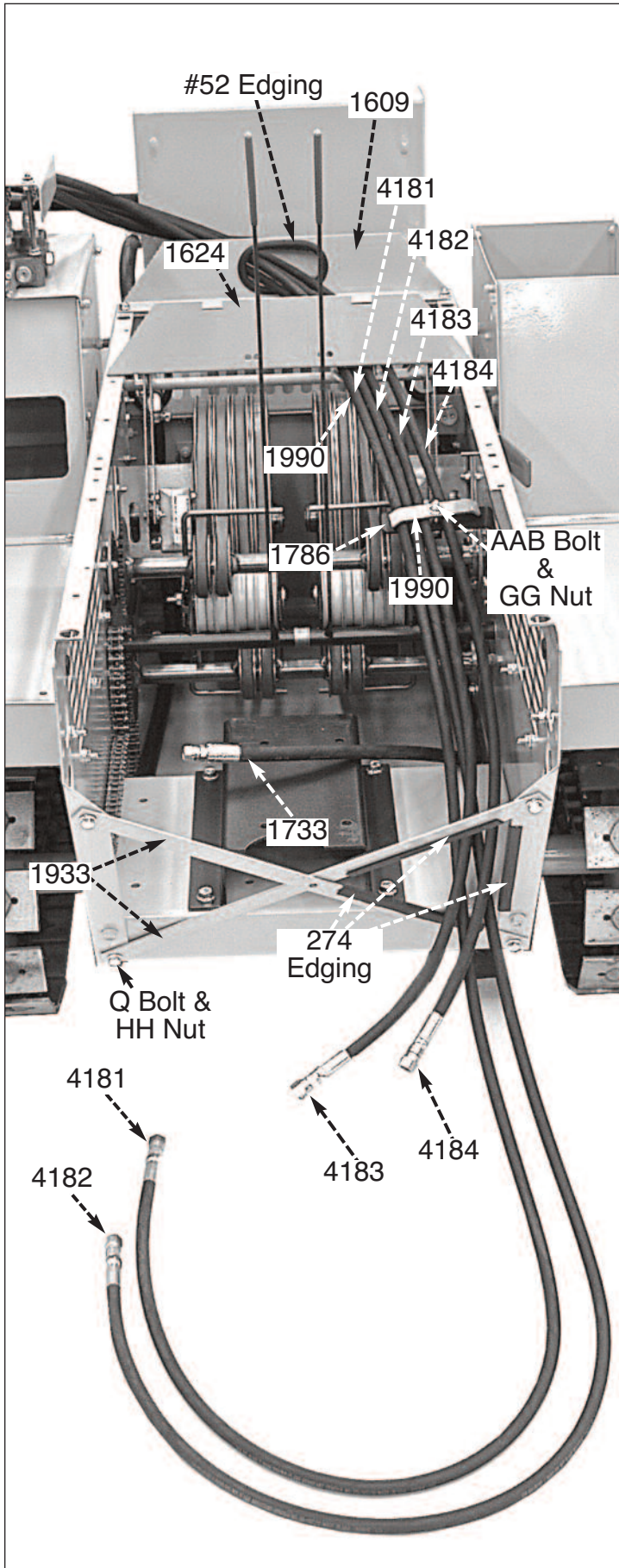
STEP 24. Cut #52 Edging to fit and install in “elliptical hole” in center of #1609 Spanner... make “edging joint” at top of hole.

START HERE IF YOU WERE TOLD TO SKIP STEP 1 THRU STEP 24!

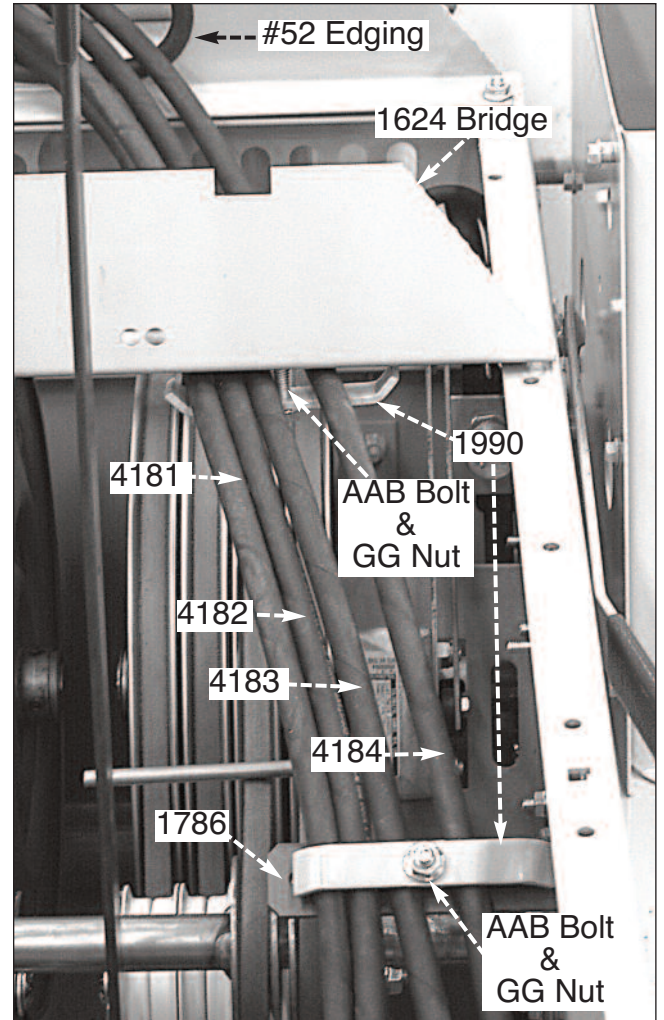
STEP 25. Closely following Photos above, left, and next page, attach Hoses #4181, #4182, #4183 and #4184 to their respective Fittings on #1920 Valve. Attach #57 Caps to each of the remaining two Fittings you’ve not attached Hoses. Install two (2) #1920B Valve Handles per Photo above.

STEP 26. Using Q Bolt & HH Nut mount #1786 Bracket to inside of Left Body Wall... lightly tighten.





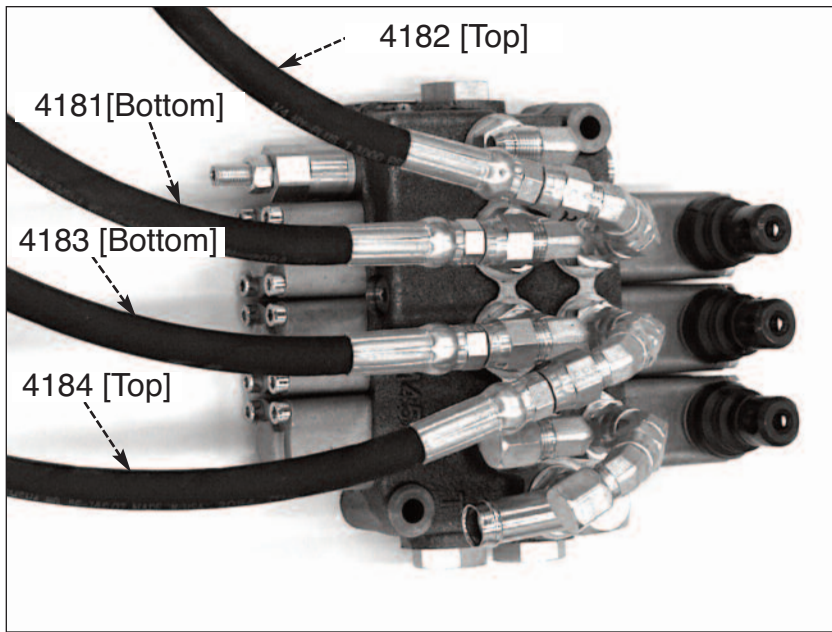
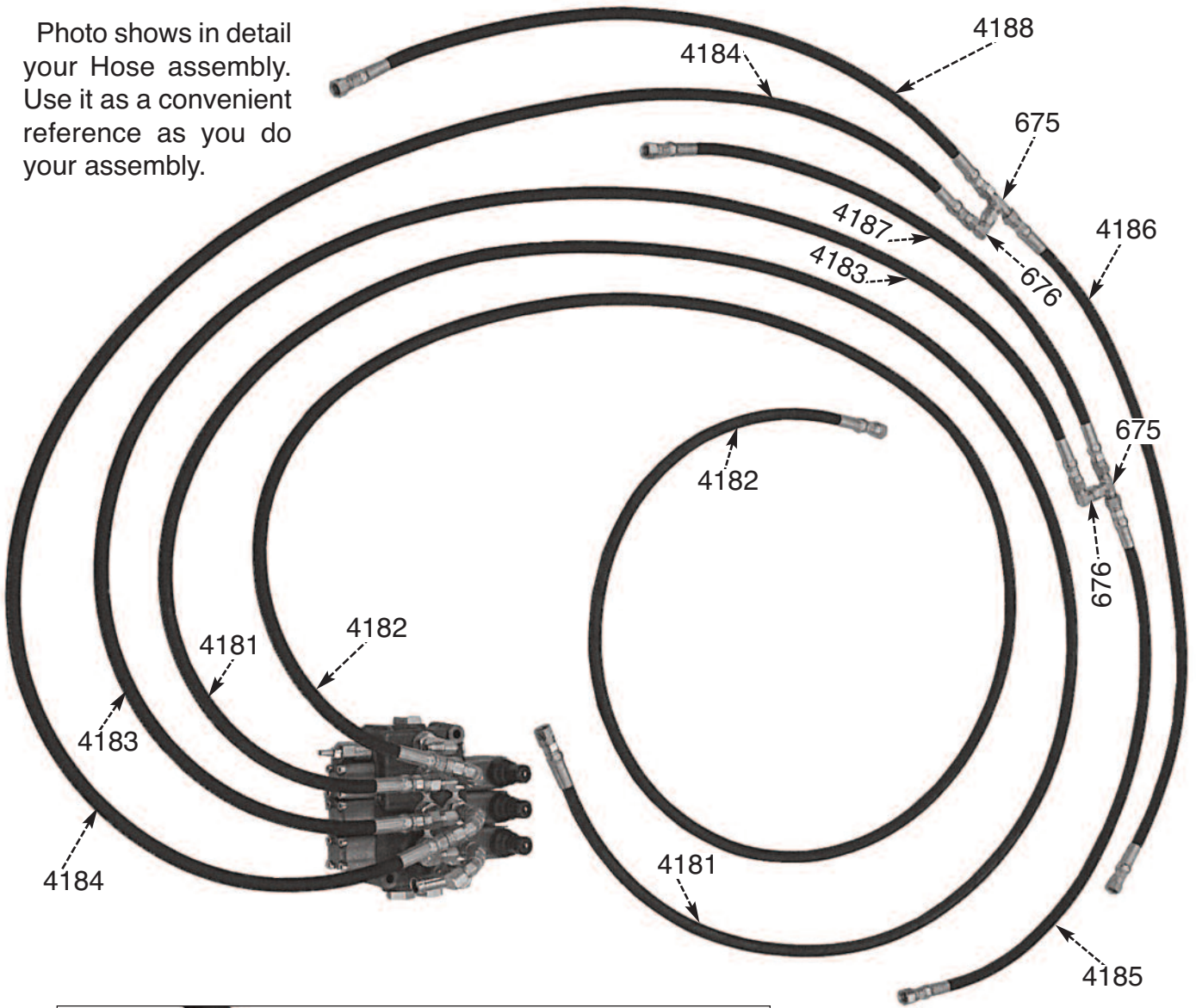
STEP 27. Loop remaining ends of Hoses #4181, #4182, #4183 and #4184 through the #52 Rubber Edged "hole" in rear outside center of #1609 Spanner. Continue forward going *fully under* #1624 Bridge and finally *over* #1786 Bracket... secure above Hoses with #1990 Clip and AAB Bolt & GG Nylon Nut... leave Nut loose.

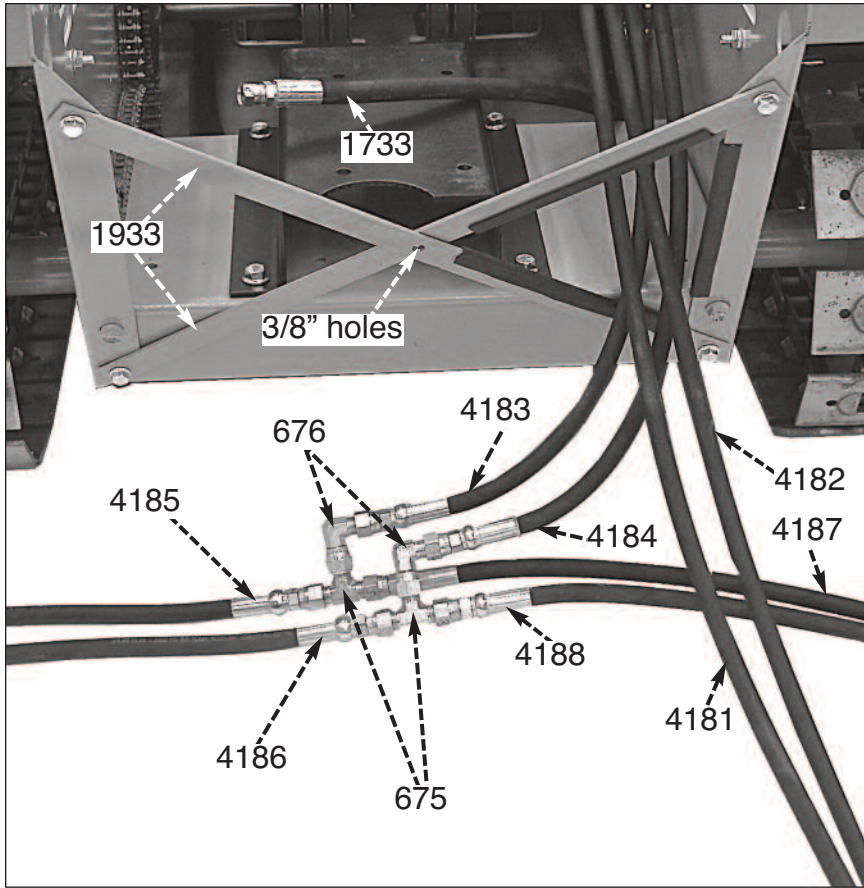


STEP 28. Using Q Bolts and HH Nuts mount #1933 Strips to forward edge of Right & Left Body Walls...leave Bolts finger tight... see Photo at left.

STEP 29. Using #274 Plastic Edging, cut three (3) pieces each 7-1/4" long. Per Photo at left, locate a piece of Edging on each Strip and on left forward edge of Body.

Photo shows in detail your Hose assembly. Use it as a convenient reference as you do your assembly.





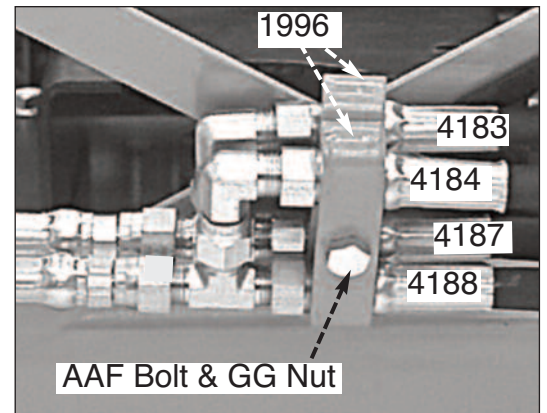
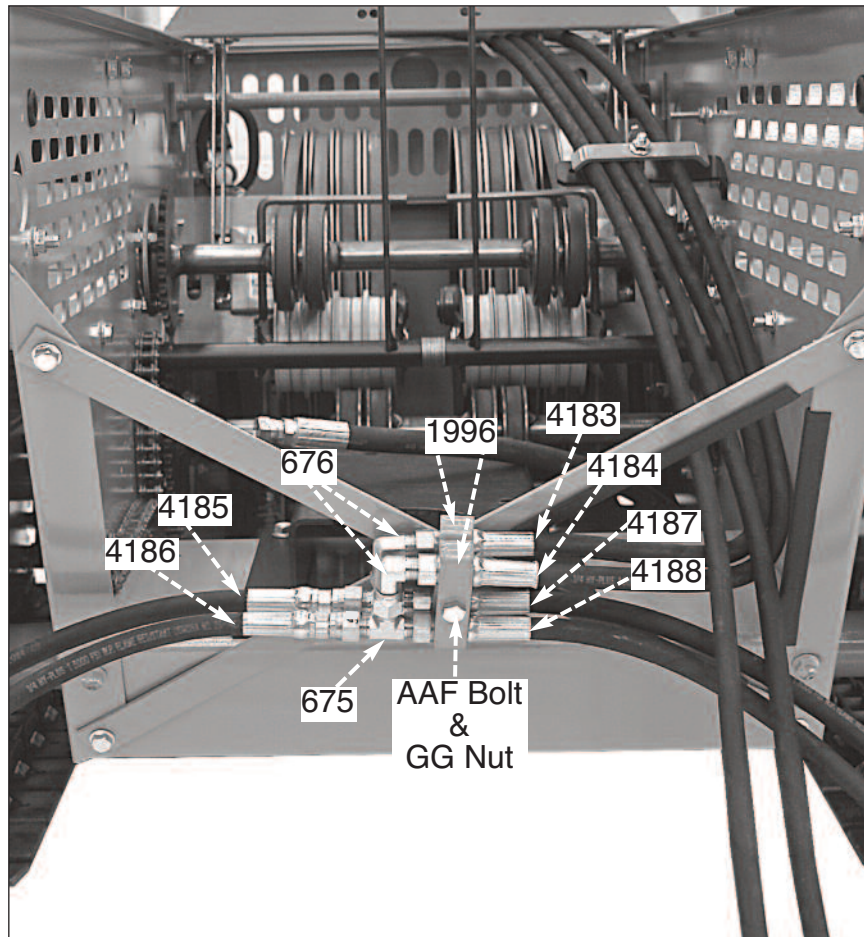
STEP 30. Attach a #676 Elbow to #4183 Hose. In a similar manner attach a #676 Elbow to #4184 Hose... only finger tighten both assemblies.

STEP 31. Attach a #675 T Fitting to remaining end of each #676 Elbow... finger tighten.

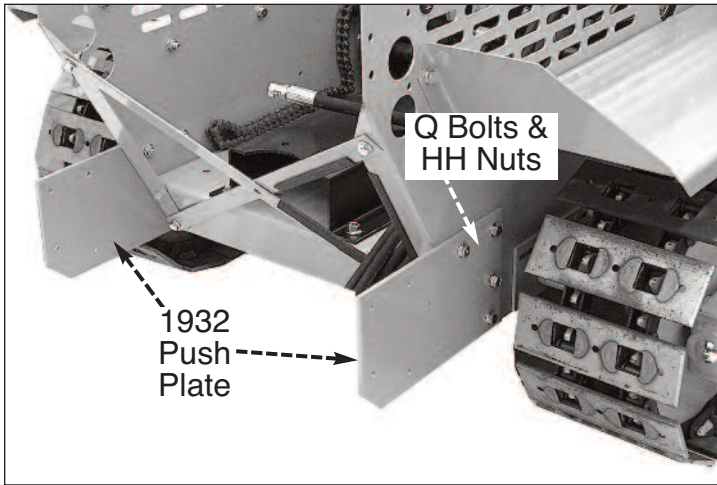
STEP 32. Using your Parts and Fastener Lists, identify the #4185, #4186, #4187 and #4188 Hoses. Following the Photos at left and below, create two "complete" Hose & Fitting assemblies using the appropriate #675 Fittings... finger tighten!

STEP 33. Loosely "sandwich" the two Hose & Fitting assemblies (assembled above) between two #1996 Clips and over the common 3/8" holes of the "crossed" #1933 Strips. Insert #AAC Bolt from outside into common mating 3/8" holes and secure inside with #GG Nut... leave loose.

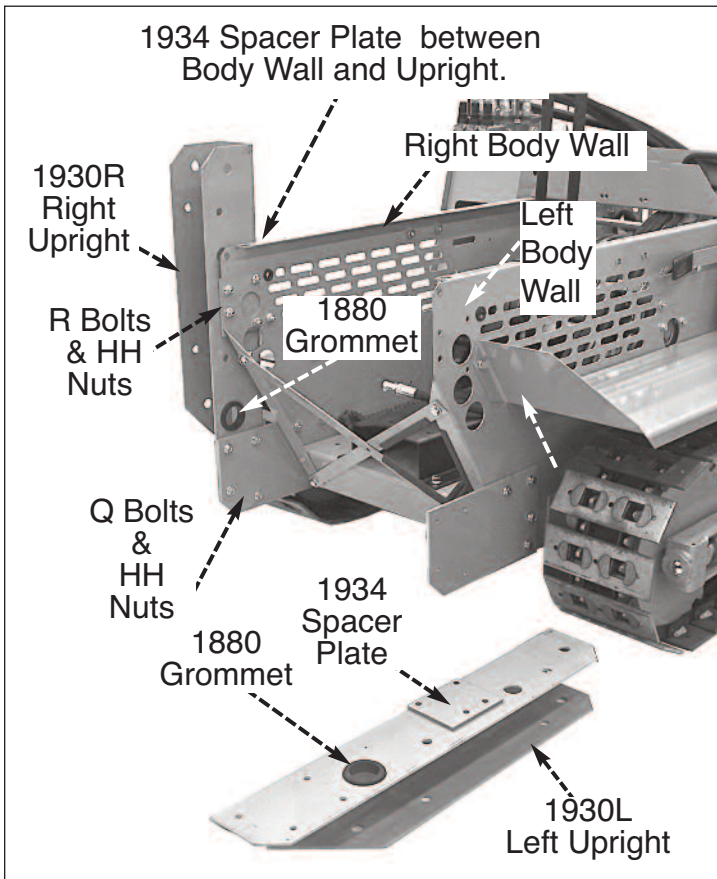
STEP 34. Align and square the above Hose, Fittings and #1996 Clips with each other... see Photos below. Holding your "alignment", slowly tighten the AAF Bolt and GG Nut to hold assembly in place... don't finish tighten at this time!



STEPS 35-37 MAY HAVE BEEN COMPLETED AT THE FACTORY!



STEP 35. Using Q Bolts and HH Nuts mount #1932 Push Plates on left & right lower front outside Body walls per Photo at left... secure inside Body with HH nuts... leave loose.



STEP 36. From inside #1930R Right Upright, slip four R Bolts into “pattern” of four 3/8” holes. Slip a #1934 Spacer Plate over these four “protruding” Bolts and then insert these Bolts into the mating 3/8” holes in outside right front Body Wall; secure inside Body with HH Nuts... leave loose. Repeat the same procedure with the #1930L Left Upright... leave loose... see Photo below left.

STEP 37. Align pattern of four (4) 3/8” holes in bottom of Right & Left Uprights with mating pattern of four (4) 3/8” holes in forward end of each #1932 Push Plate.

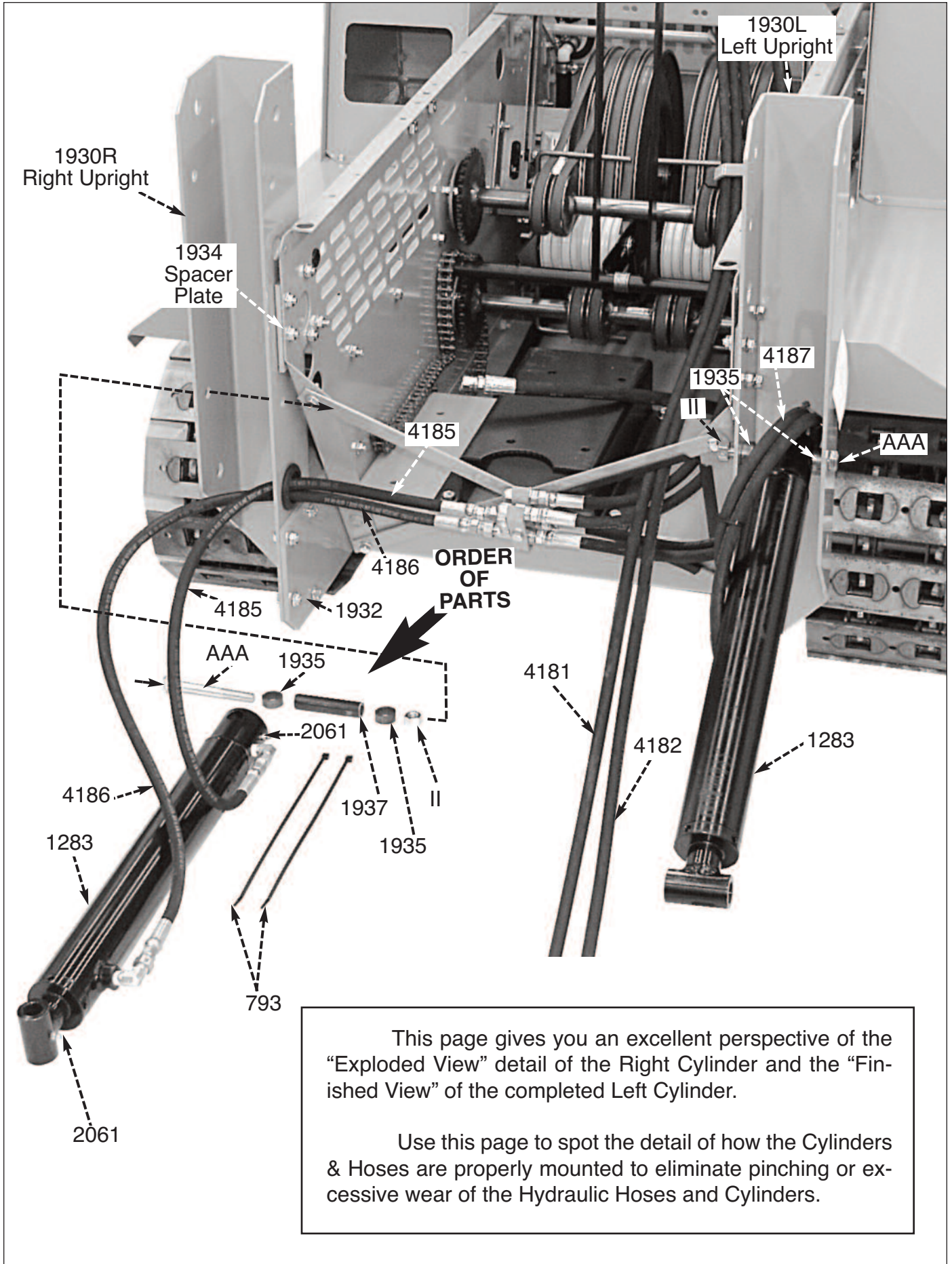
From outside, insert a #Q Bolt into each of the 3/8” holes aligned in step above. Secure all eight (8) #Q Bolts “pointing inside” with HH Nuts.

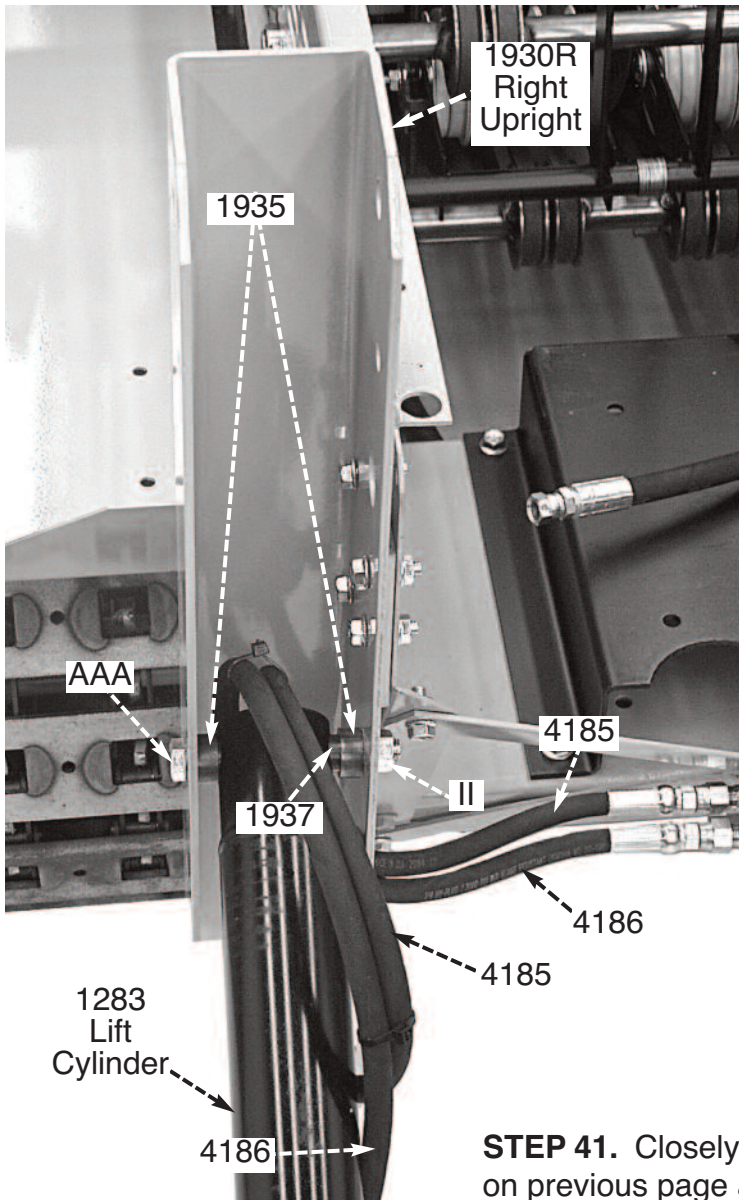
Fully tighten the Q and R Bolts assembled in STEPS 35, 36 & 37 above.

STEP 38. Insert a #1880 Grommet into 1-1/2” hole in each of the Uprights. Check Photo at left.

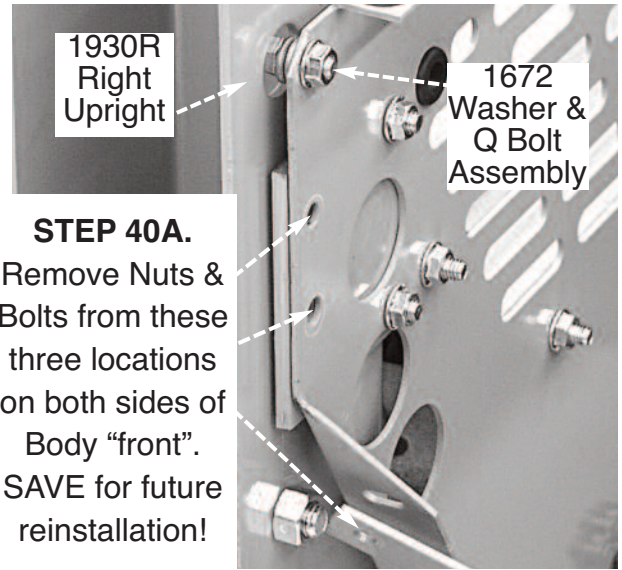
STEP 39. Prepare three (3) #1283 Cylinders per Photo below. Wrap a few turns of “teflon tape” *clockwise* around *straight* threaded end of two #54 Elbow Fittings. “Thread” Fittings into threaded holes provided at ends of each Cylinder... turn Fittings *tightly* and complete your turns when Fittings face each other.







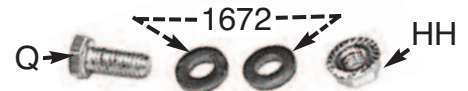
STEP 40A & 40B MAY HAVE BEEN COMPLETED AT THE FACTORY!



STEP 40A.
Remove Nuts & Bolts from these three locations on both sides of Body "front".
SAVE for future reinstallation!

STEP 40B. Slip Q Bolt into two (2) #1672 Washers and from outside insert into 1" access hole of #1930R Right Upright and then into 5/16" hole in top front of Body Wall. Secure inside with HH Nut... tighten.

Repeat this assembly through the 1" access hole in #1930L Left Upright on left side of Tractor & tighten... see Photos above & below.



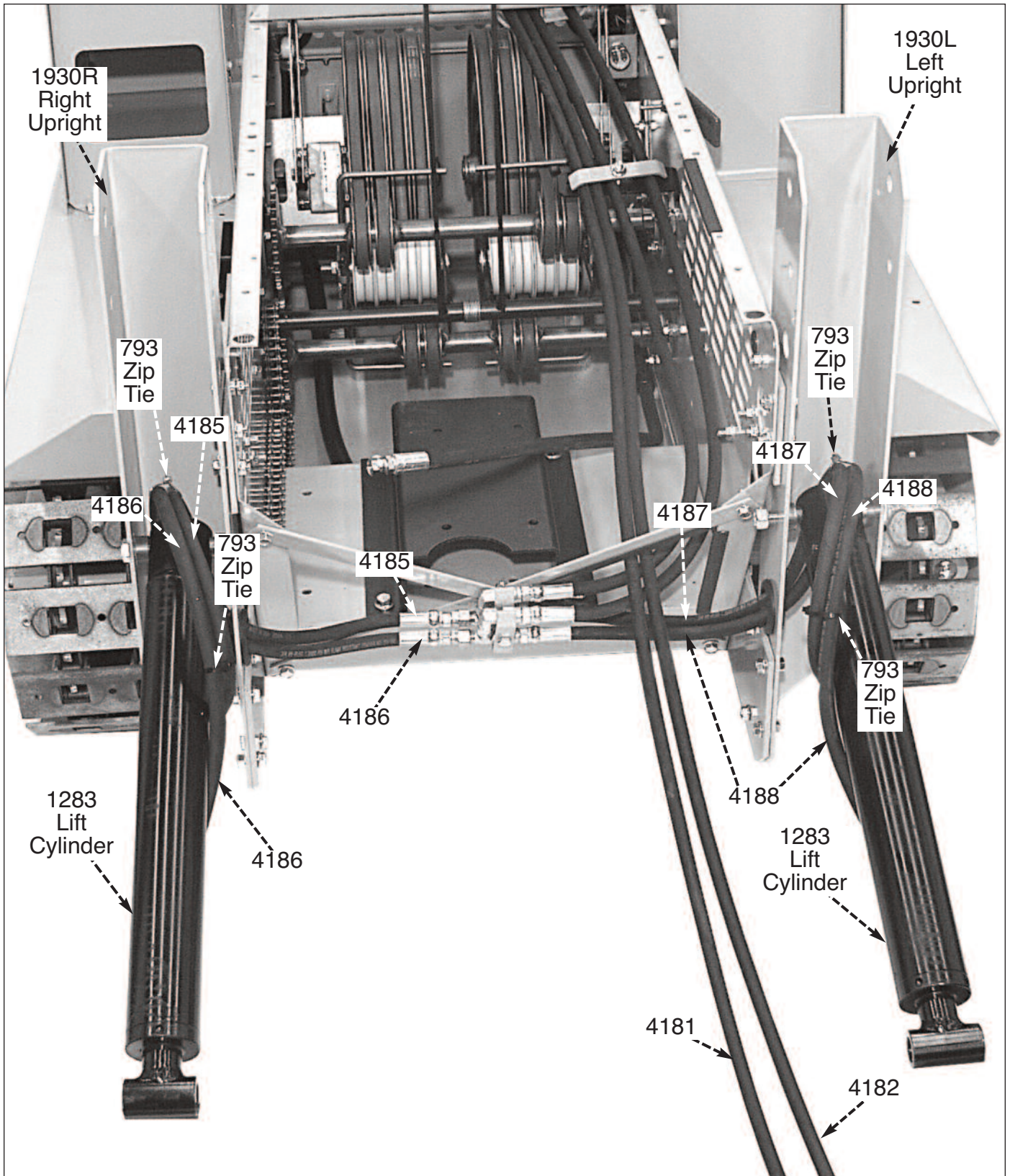
STEP 41. Closely following the Photo of the **ORDER OF PARTS** on previous page and the Photo above left, slip a #1937 Tube into the 3/4" hole in "top" of each of two (2) #1283 Lift Cylinders. Center the Tube in Cylinder end and then Slip a #1935 Spacer completely over each Tube end.

STEP 42. Slip this "Tube assembly" end of each Lift Cylinder into it respective #1930R Right & #1930L Left Uprights. Aline 1/2" hole in each Cylinder's #1937 Tube with 1/2" hole in it's mating #1930 Right or Left Upright. From "outside" slip a #AAA Bolt through 1/2" hole in each Upright and mating with its respective #1937 Tube. On "inside" secure each #AAA Bolt with #II Nut - Don't tighten.

CAUTION: When doing the above assembly, be very careful to route the #4185, #4186, #4187 and #4188 Hoses carefully so they follow *exactly* the paths shown in the above assembly Photos... the Hoses should be "relaxed" and able to track the movement of the Loader "arms" as they rotate up and down.

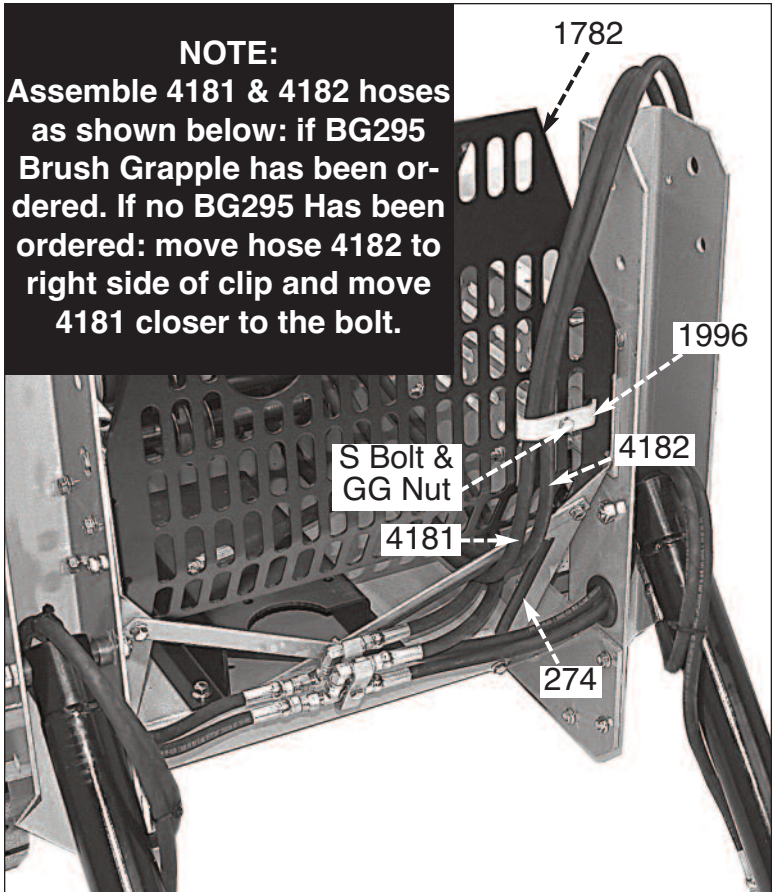
Follow Photo on next page and install the two #793 Zip Ties shown on *right* "bundling" Hoses #4185 & #4186 and another two #793 Zip Ties on *left* "bundling" Hoses #4187 & #4188. Additional Ties are provided so you may address other areas that you feel should also be "tied back".

**Photo on next page displays:
Recommended Hose paths and locations of #793 Zip Ties.**



CHECKING PHOTO:

Use the above Photo to check your complete assembly this far. Take nothing for granted... to hook up hydraulic Hoses incorrectly is potentially DANGEROUS!

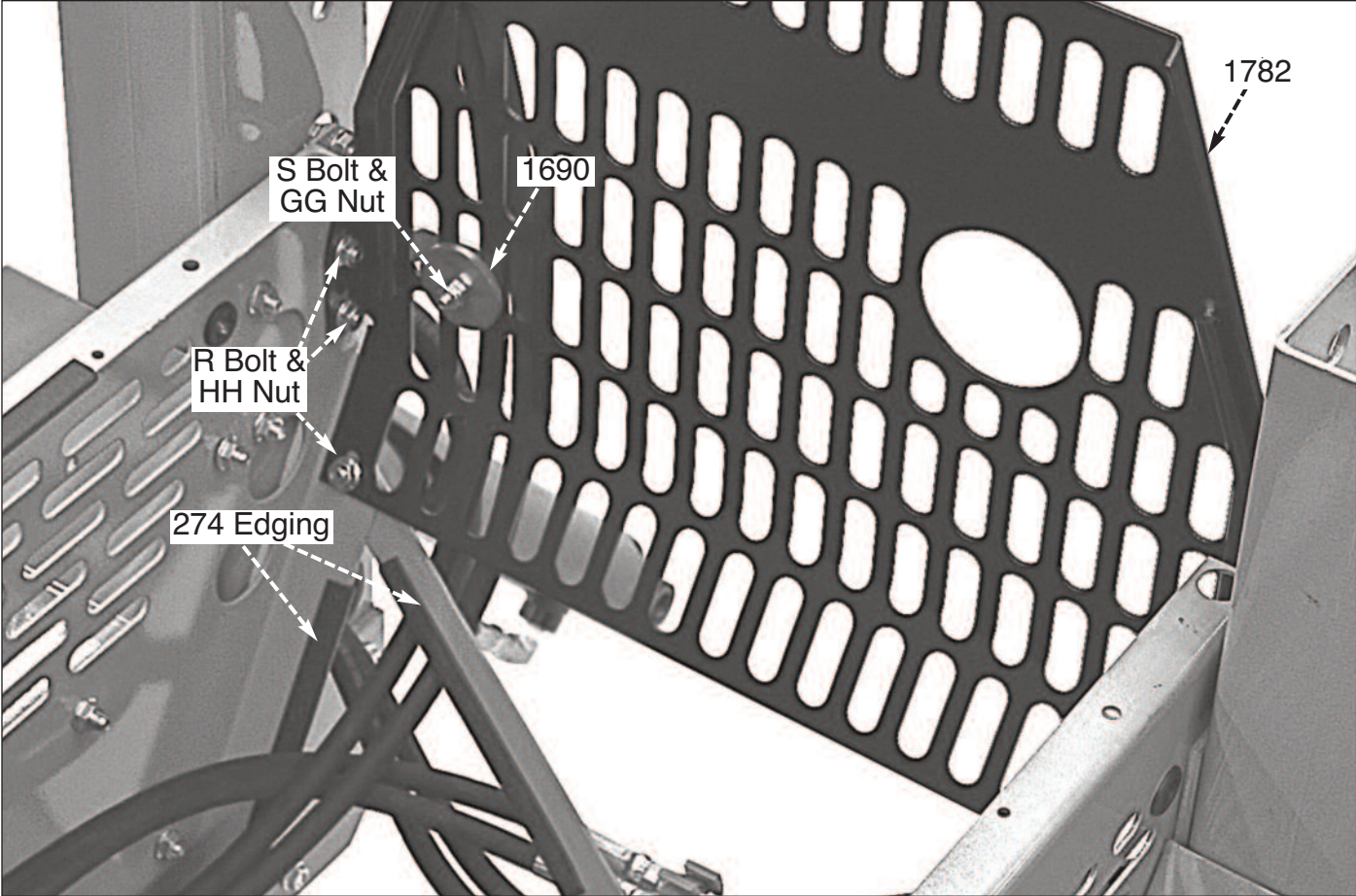


STEP 43. Replace your #1782 Front Grill if it was removed for previous assembly. Use R Bolts and HH Nuts to secure your assembly... tighten all six (6) Bolts and Nuts at this time... see Photo below.

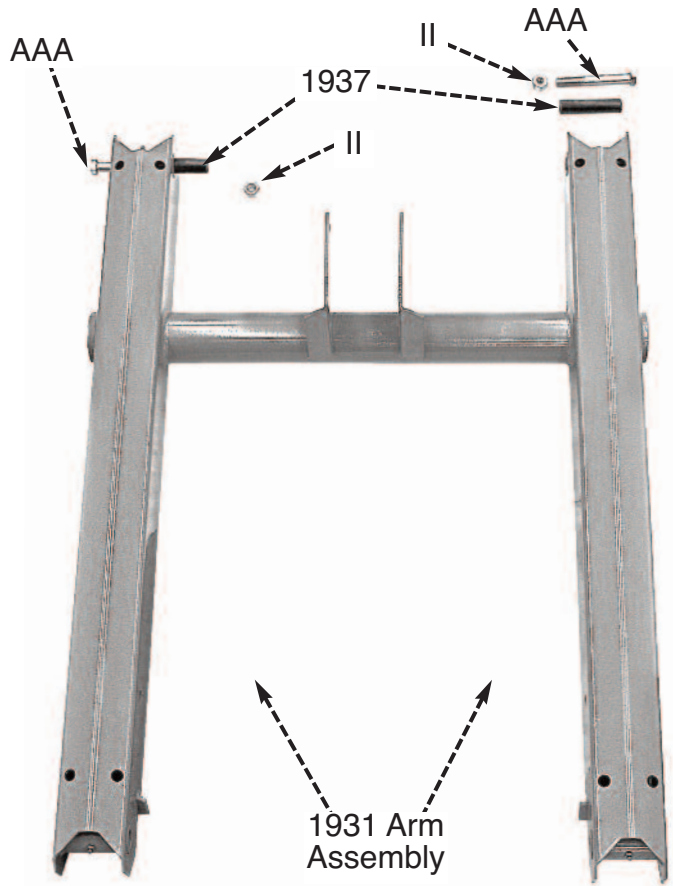
STEP 44. Gather your #4181 and #4182 Hoses together and pass their remaining ends through the “triangular” opening formed by your #274 Edging... if necessary, rearrange Edging to protect Hoses from any metal edges that may be sharp and potentially cut your Hoses.

STEP 45. Following the Photo at left, draw your Hoses around the underside edge of the #1782 Grill and up the front left outside surface of your Grill.

Hold Hoses with a #1996 Clip and an S Bolt passing through a #1690 Washer on back side of Grill... **(See Note!)** secure with GG Nut...don't fully tighten.

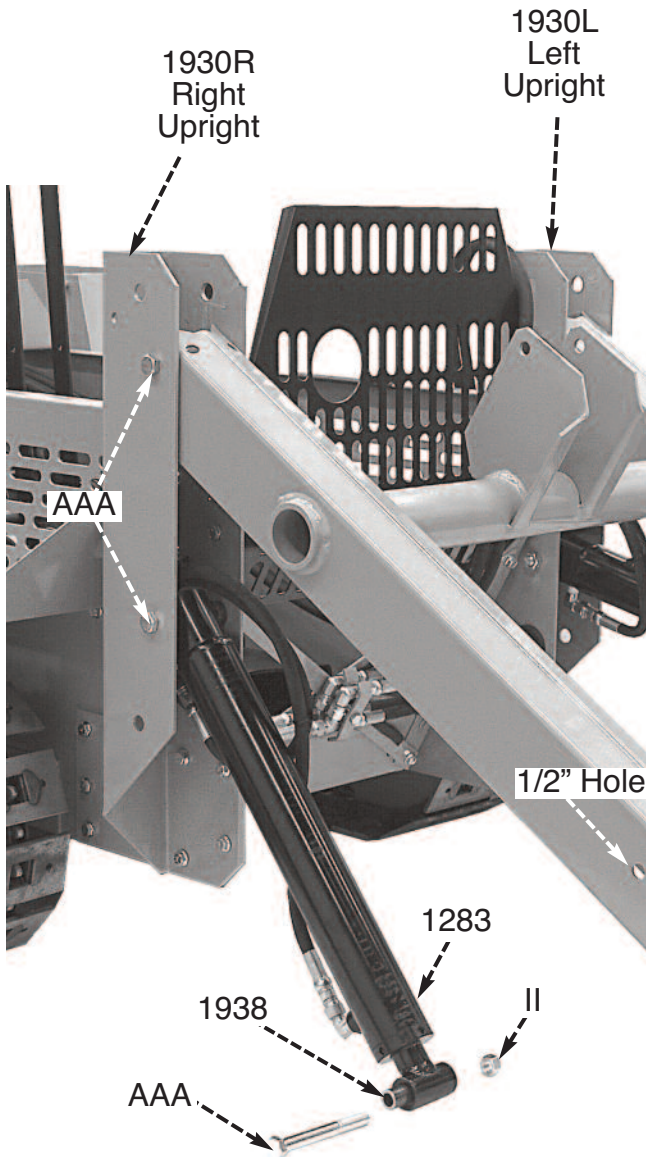


STEP 46. Insert a #1937 Tube into each “tube” on top ends of #1931 Arm Assembly... Photo at right.

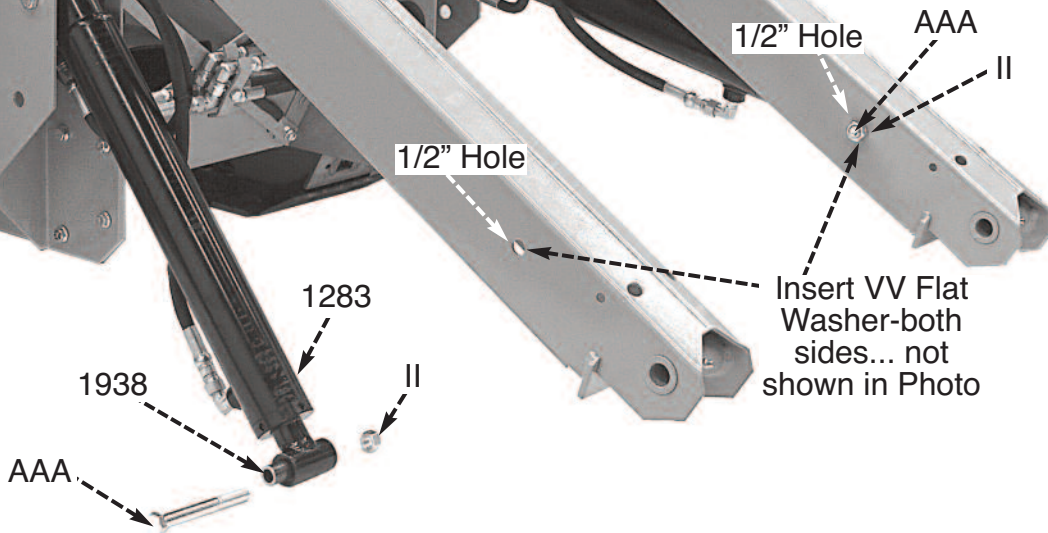


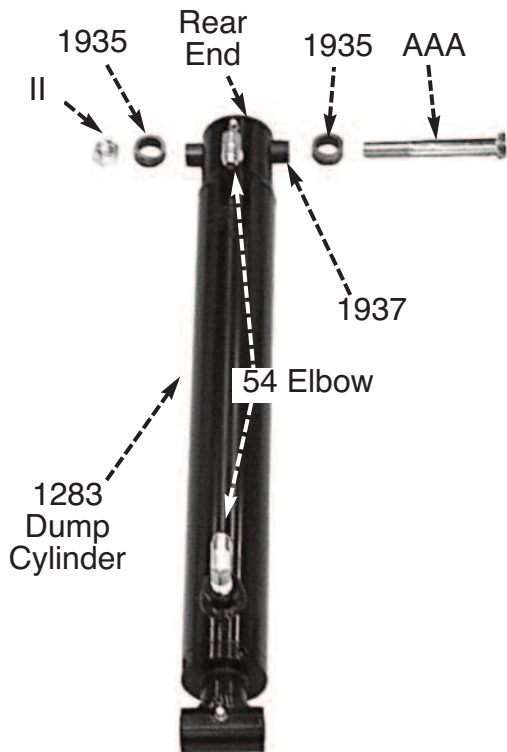
STEP 47. Slide “top arms” of #1931 Arm Assembly into “top ends” of mating #1930L Left & #1030R Right Uprights. Align #1937 Tubes in Arm Assembly with mating 1/2” holes in mating Left & Right Uprights

STEP 48. From “outside” insert #AAA Bolt into a #VV Washer and then into “above” aligned 1/2” holes. Secure “inside” with second #VV Washer and #II Nut and tighten... #VV Washers not shown in Photos.



STEP 49. Insert & center #1938 Tube into remaining end of each #1238 Lift Cylinder. Rotate Cylinders upward and inside forward ends of each Cylinder aligning 1/2” holes in each Arm with mating 1/2” hole in Cylinders #1938 Tube. From outside, insert a #AAA Bolt into a #VV Washer and then into aligned 1/2” holes. Apply second #VV Washer and #II Nut and tighten... #VV Washers not shown in Photos.





STEP 50. Insert #1937 Tube into “non-piston end” of #1283 Dump Cylinder per Photo at left. Over Left & Right ends of #1937 Tube slip on a #1935 Tube.

STEP 51. Locate “rear end” of Cylinder Assembly between the “Vertical Plates ” on your #1931 Arm Assembly... make sure Cylinder’s Fittings are on the “underside” of the Cylinder. Locate ends of #1937 Tube with mating 1/2” holes in Plates.

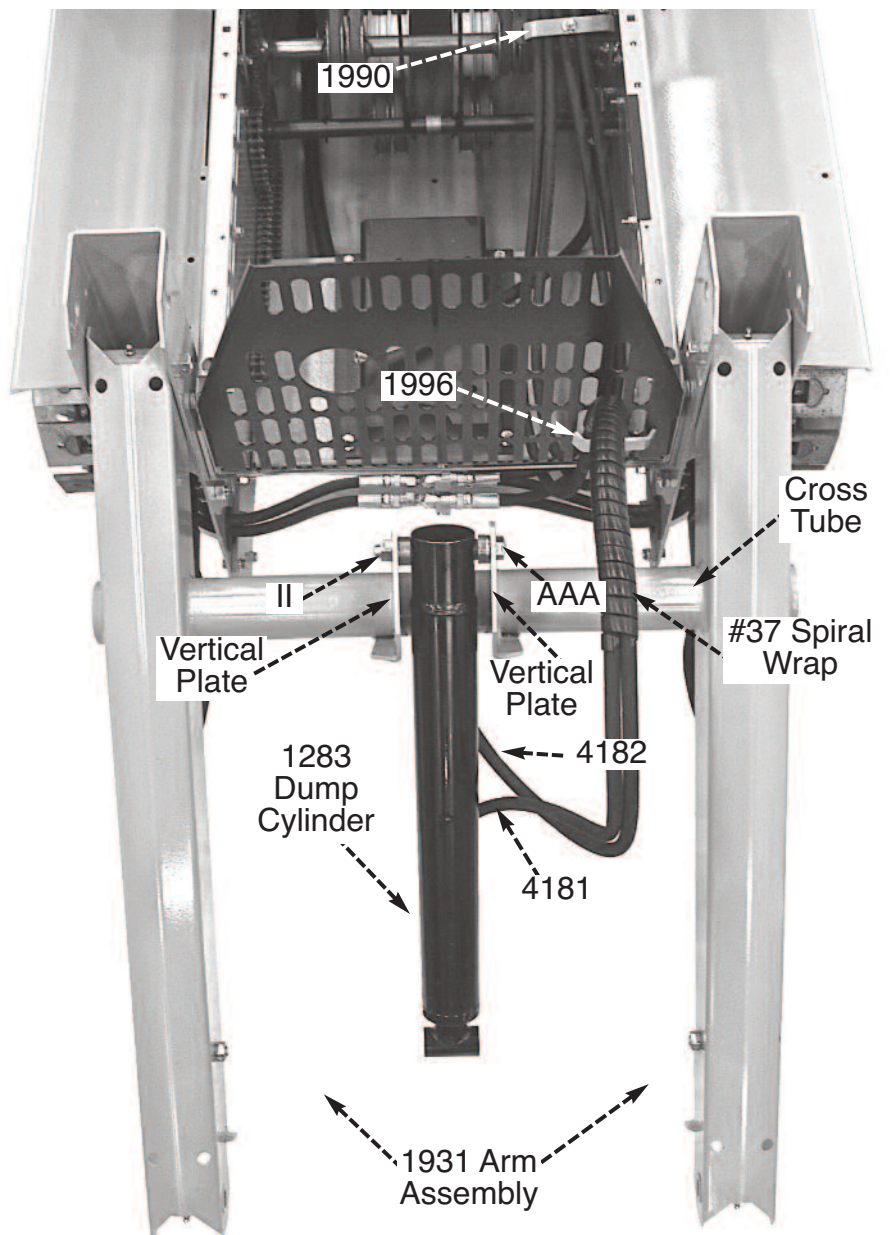
STEP 52. Insert #AAA Bolt through #VV Flat Washer and then through “aligned” Vertical Plates and Cylinder’s #1937 Tube. Secure end of Bolt with #VV Washer and #II Nut... tighten Nut fully.

STEP 53. Connect #4181 Hose to the #54 Elbow on “front end” of #1283 Cylinder. Connect #4182 to the Hose on the “rear end” of #1283 Cylinder.

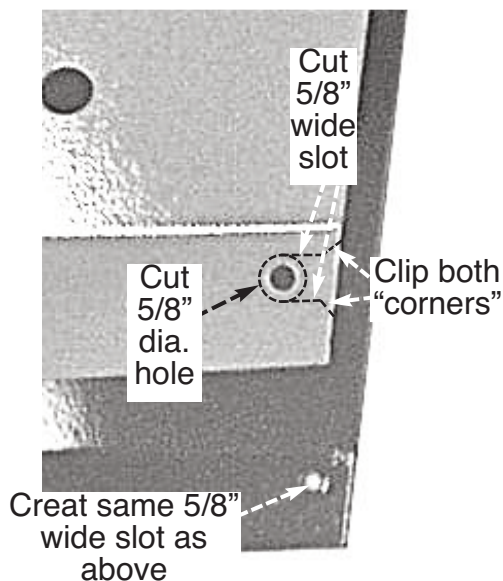
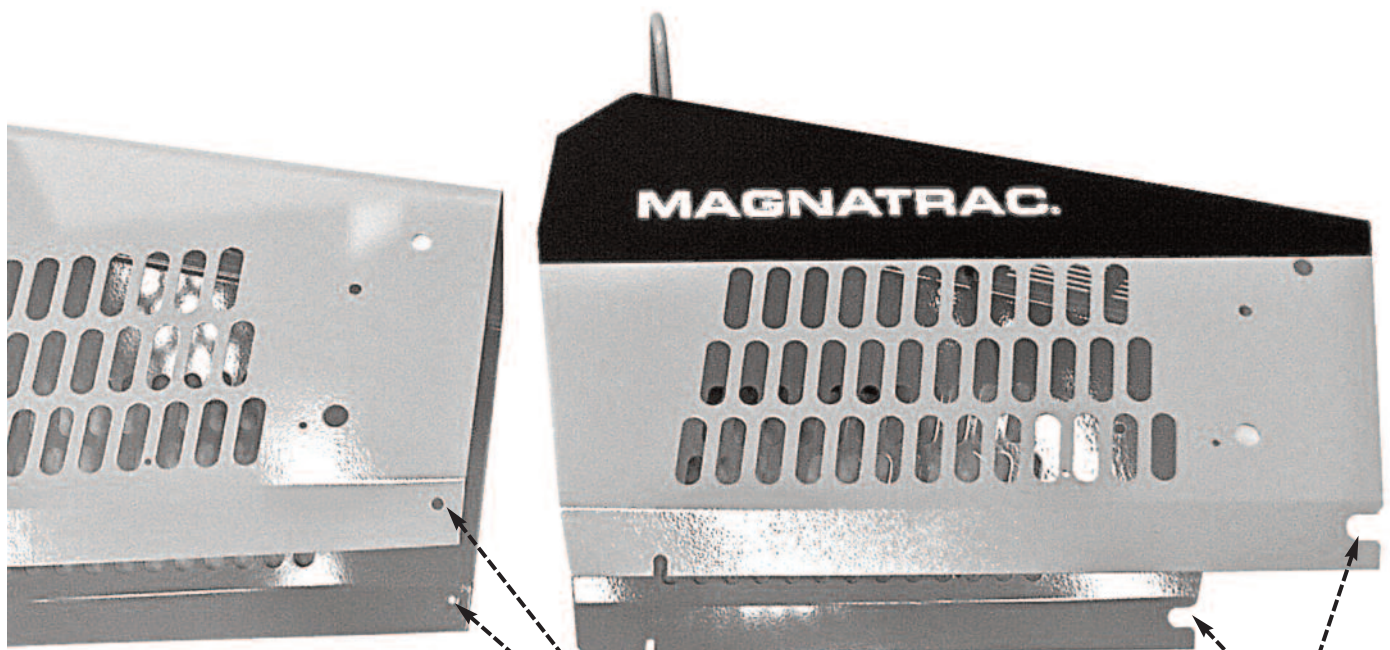
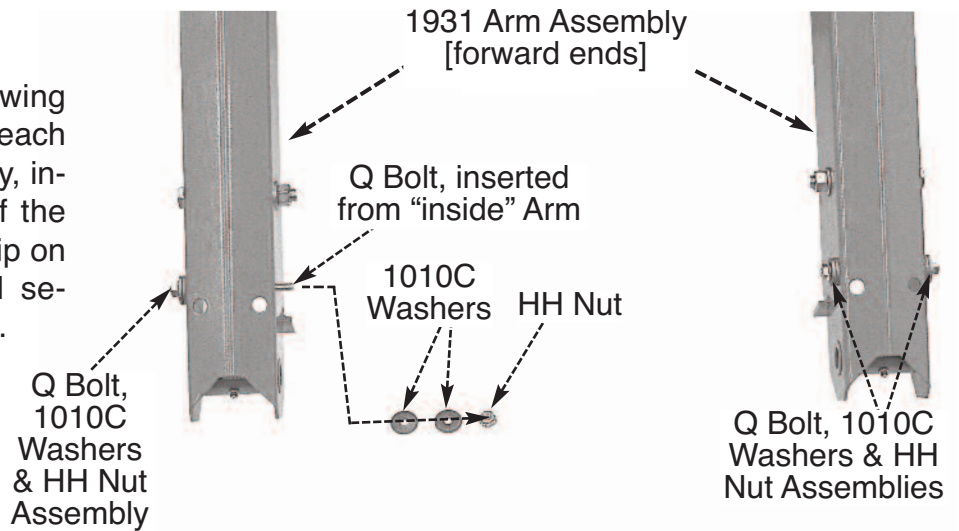
STEP 54. Rotate #1283 Cylinder up and down to see that Hoses ride smoothly over “Cross Tube” as Cylinder and #1931 Arm Assembly move up and down.

Loosen S Bolt & G Nut on #1996 Clip on Grill to find the position Hoses to “track” as smoothly as possible. When satisfied, tighten the Bolts & Nut on the #1996 Clip.

STEP 55. Apply #37 Spiral Wrap to your Hoses by “uncurling” it as you slip it around the Hoses.



STEP 56. Following Photo at right... from inside each Arm of #1931 Arm Assembly, insert a #Q Bolt into each of the two 5/16" holes. Outside, slip on two #1010C Washers and secure with #HH Nut... tighten.

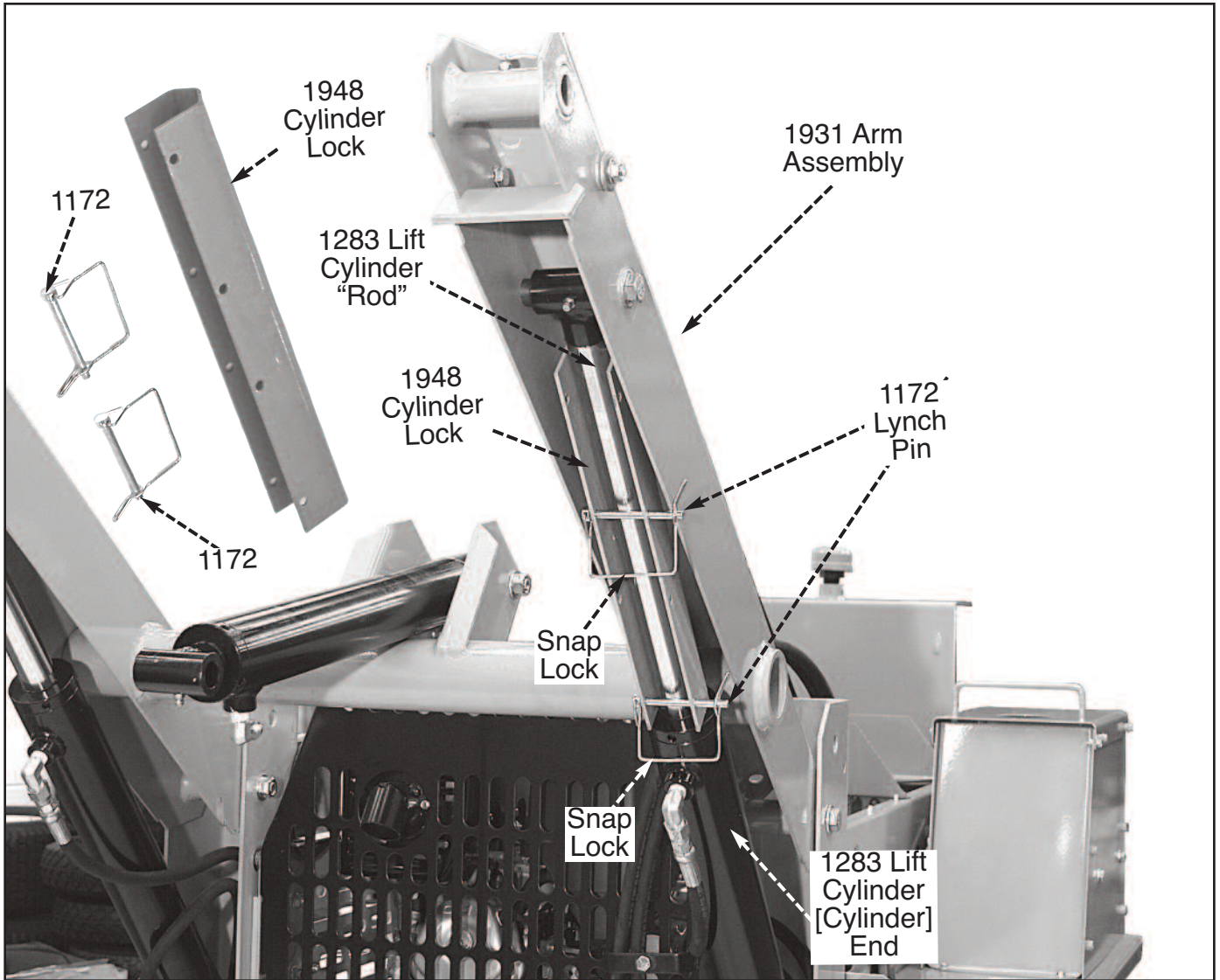


"Enlarge" these two 3/8" holes to 5/8" dia.

"Creat" these two slots

STEP 57. If you are adding a Loader to an earlier model RS1000 you must bring your Hood "up to date" by creating two 5/8" slots in place of the original 3/8" holes.

If you have limited professional tools, you can create the required two slots using Hand Files and Hacksaw... do your work slowly and keep the "slot" centered around the original 3/8" holes.



STEP 58. For Maintenance Safety, your Magnatrak RS1000 is equipped with a #1948 Cylinder Lock. This Lock must be in place when ever the Arm Assembly is raised and can not be supported on the ground.

The Cylinder Lock is placed around the “rod” of the Piston End of the #1283 Cylinder on either the right side or left. The Lock is slid on and rotated around the “rod” so its “open end” faces down. Secure with two (2) #1172 Lynch Pins place at *lower end* and approximately the *middle*... lock it in place with its wire “snap lock”... carefully check Photo above.

For safety, lower the #1931 Arm Assembly until the “Lock” restrains any further downward motion. Though you should always use utmost care working under your Loader, it’s now safe to do so!

CONGRATULATIONS...

**You have completed the
Assembly of your HL295 Hydro Loader Kit.**

All that's left now is to thoroughly check your Assembly. During your Assembly you were told to leave most Nuts & Bolts "untightened". This was to allow you the opportunity at this time to easily go over your work making what corrections may be necessary without having to "muscle" a number of super tightened Nuts and Bolts!

You are encourage to take your time checking your assembly and to look for mistakes due to potentially not fully understanding the instructions. When satisfied with each section of your work, fully tighten all those Nuts & Bolts you have assembled in that section.

We have Service Tech's here at the Factory who have been trained to help talk you through any problems you may have encountered.

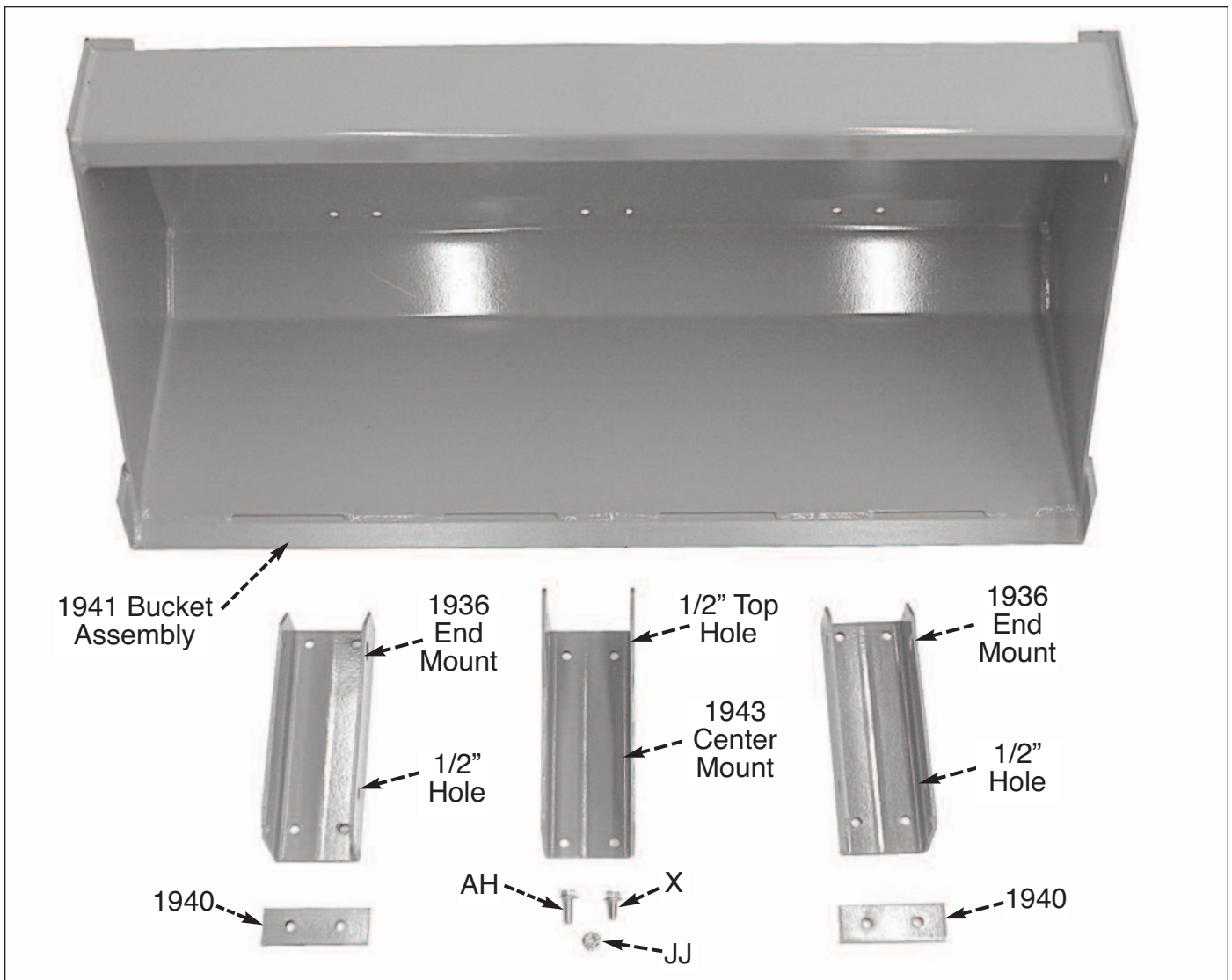
C. F. Struck Corp.

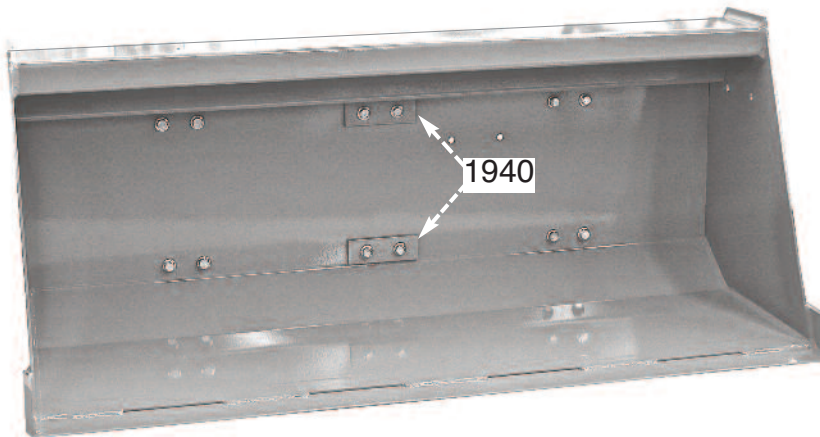
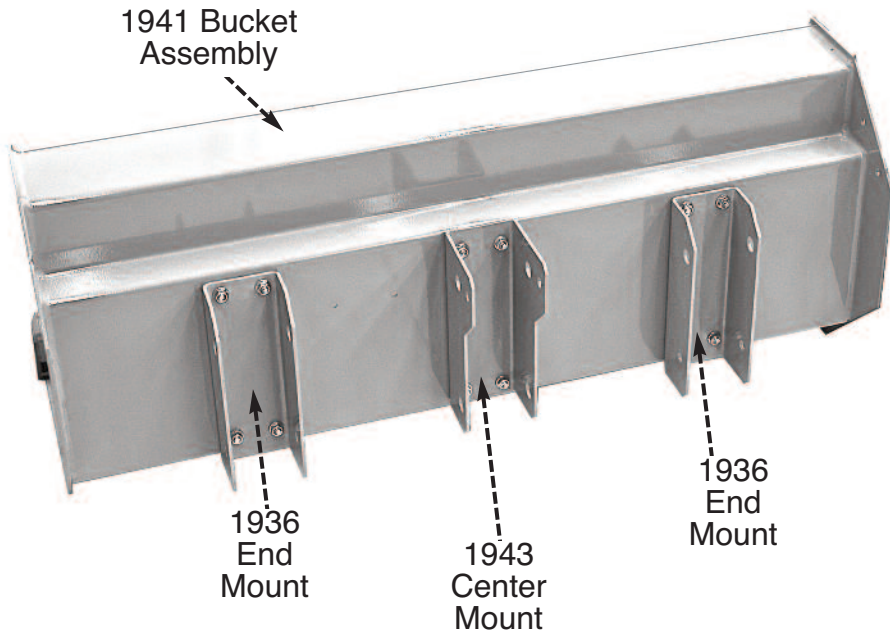
Bucket Kit

BK295

PARTS LIST

1936	End Mount, Bucket (2)		
1940	Nut Plate, (brace for Bucket) (2)		
1941	Bucket Assembly (RS1000 Loader)		
1943	Center Mount, Bucket		
X	3/8-16x3/4	Spin Lock Bolt	(8)
AH	3/8-16x1	Spin Lock Bolt	(4)
JJ	3/8-16	Spin Lock Nut	(12)





STEP 1. Insert four (4) AH Bolts into the four 3/8" holes on "inside face" of #1943 Center Mount. Apply this assembly to the pattern of four (4) 3/8" holes on center "rear face" of #1941 Bucket Assembly... insert Bolts into mating 3/8" holes.

STEP 2. Inside Bucket, slip a #1940 Plate over each pair of Bolts protruding through Bucket's rear inside wall... secure with four (4) JJ Nuts... Fully tighten.

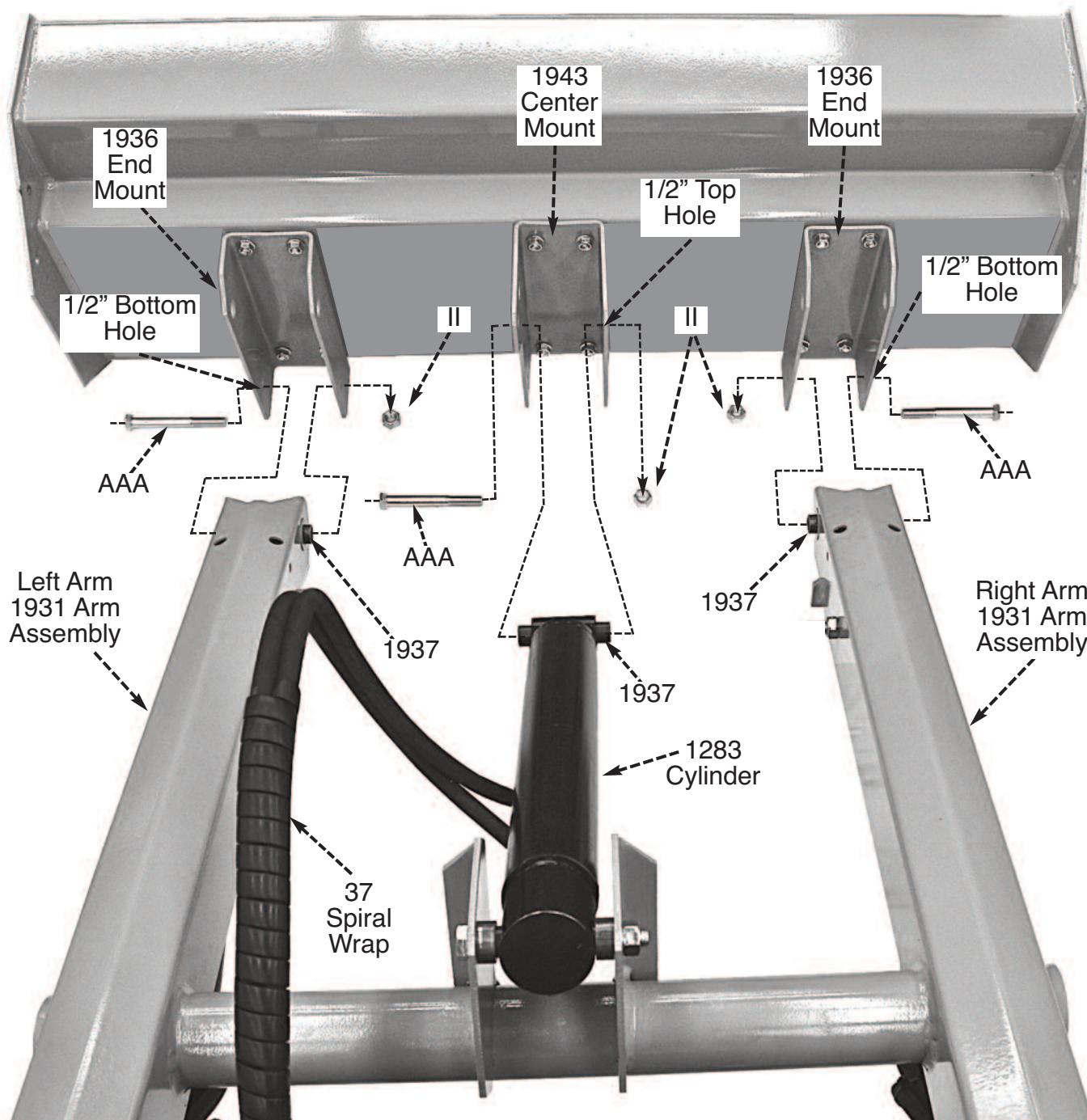
STEP 3. In a manner similar to above, insert four (4) X Bolts into pattern of four 3/8" holes on "inside face" of both #1936 End Mounts.

STEP 4. Inside Bucket secure both sets of four (4) X Bolts with JJ Nuts... Fully tighten.

NOTE: The remaining instructions will require parts that are contained in your original HL295 Hydro Loader Kit.

STEP 5. Insert #1937 Tubes into “tubes” welded into Right & Left Arms of #1931 Arm Assembly. Slip the forward ends of Left & Right Arms into their mating #1936 End Mounts. Align each Arms “tube” with the mating 1/2” bottom hole in bottom of End Mount. From outside, insert #AAA Bolts into these aligned Arms and Tubes and End Mounts. Secure “inside” with II Nuts... Fully tighten.

STEP 6. In a similar manner, insert Cylinder with #1937 Tube into it’s mating #1943 Center Mount. Align Tube with mating 1/2” top hole in top of Center Mount. From outside, insert #AAA Bolt and secure with #II Nut... Fully tighten.



At this time, Fully Tighten all AH and X Spin Lock Bolts on your Bucket Assembly.

Brush Grapple Kit

Version: 04.16

BG295 - Brush Grapple Kit

BG295

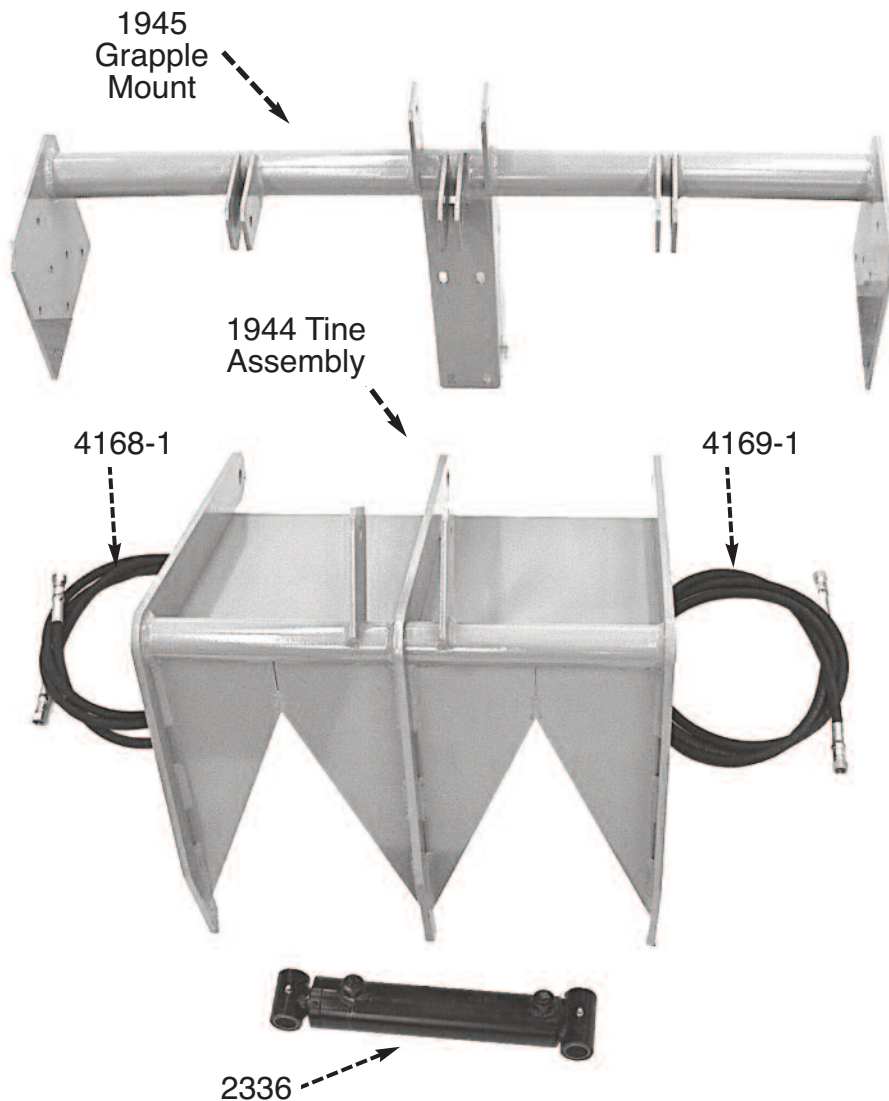
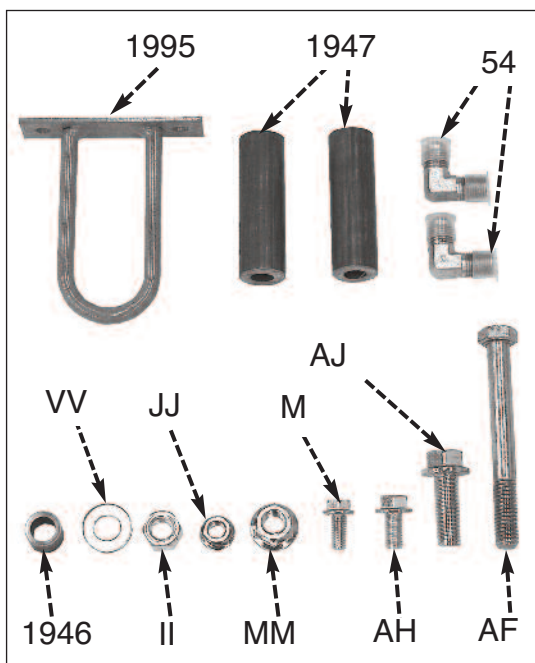
PARTS LIST

37	Spiral Wrap, 24"	(2)	1452	Rubber Male Cap	(2)
54	Fitting, 90 degree	(2)	1453	Rubber Female Cap	(2)
793	Cable/Hose Ties	(3)	2573	Fitting, 4040-2P, Female	(2)
1945	Grapple Mount		2574	Fitting, 4010-2P, Male	(2)
1944	Tine Assembly				
1946	Bushing, unpainted	(3)	M	5/16-18x3/4 Spin Lock Bolt	(2)
1947	Tube, unpainted	(2)	HH	5/16-18 Spin Lock Nut [not shown]	(2)
1995	Hose Loop Mount		AH	3/8-16x1 Spin Lock Bolt	(16)
2336	Cylinder w/ Bearings & Zerks		JJ	3/8-16 Spin Lock Nut	(16)
4168-1	Hose, 1/4 x 91" [#5 Spool, Top]		AJ	1/2-13x1-1/2 Spin Lock Bolt	(3)
4169-1	Hose, 1/4 x 90" [#6 Spool, Bot.]		MM	1/2-13 Spin Lock Nut	(3)
4168-2	Hose, 1/4 x 46" [Rod Tube]		AF	1/2-13x4-1/2 Bolt	(2)
4169-2	Hose, 1/4 x 56" [Cylinder Tube]		II	1/2-13 Dot Lock Nut	(2)
			VV	1/2" Flat Washer	(4)

NOTE:

Some of the above items may have been installed at the factory.

The sizes of "parts" in the Photos at the right and below are not in proportion to each other. But all items in each Photo are proportional to each other.



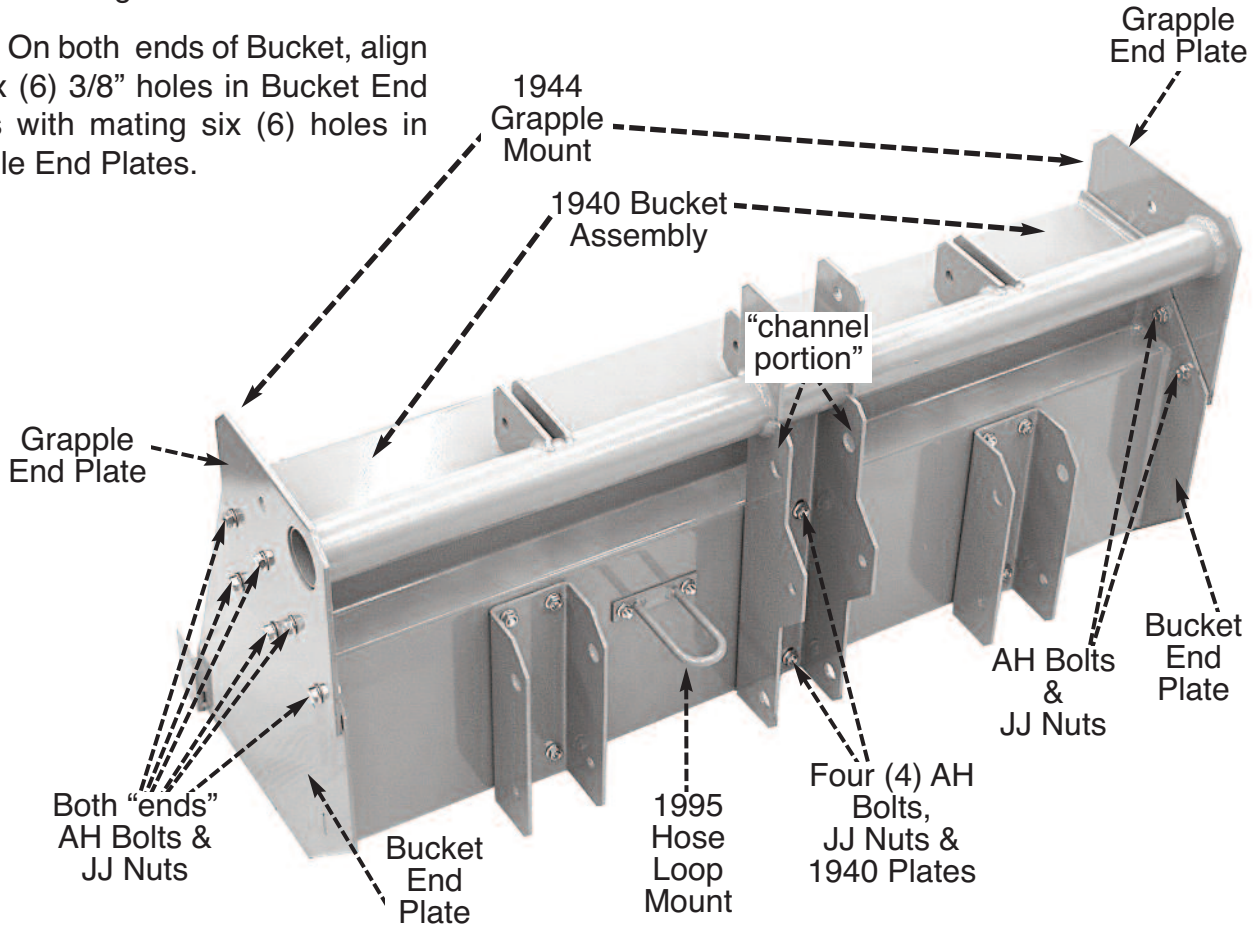
BM127

SPECIAL NOTE: For the following instructions, it is assumed that you have BK295 Bucket already mounted to your HL295 Loader.

STEP 1. Rest Bucket on floor and remove the #1943 Center Mount from your #1940 Bucket Assembly and save its four #AA Bolts, four #JJ Nuts and two #1940 Nut Plates.

STEP 2. From above, slip the End Plates of the #1944 Grapple Tine Assembly “around” mating Bucket End Plates.

On both ends of Bucket, align the six (6) 3/8” holes in Bucket End Plates with mating six (6) holes in Grapple End Plates.



STEP 3. From outside, slip a #AH Bolt into each one of the six (6) mating holes aligned above on each end of Bucket. Inside Bucket secure Bolts with #JJ Nuts... finger tight. Using original four (4) AH Bolts, JJ Nuts and two #1940 Plates, mount “channel portion” of Grapple Tine Assembly into the same location you had previously removed #1943 Center Mount... finger tight.

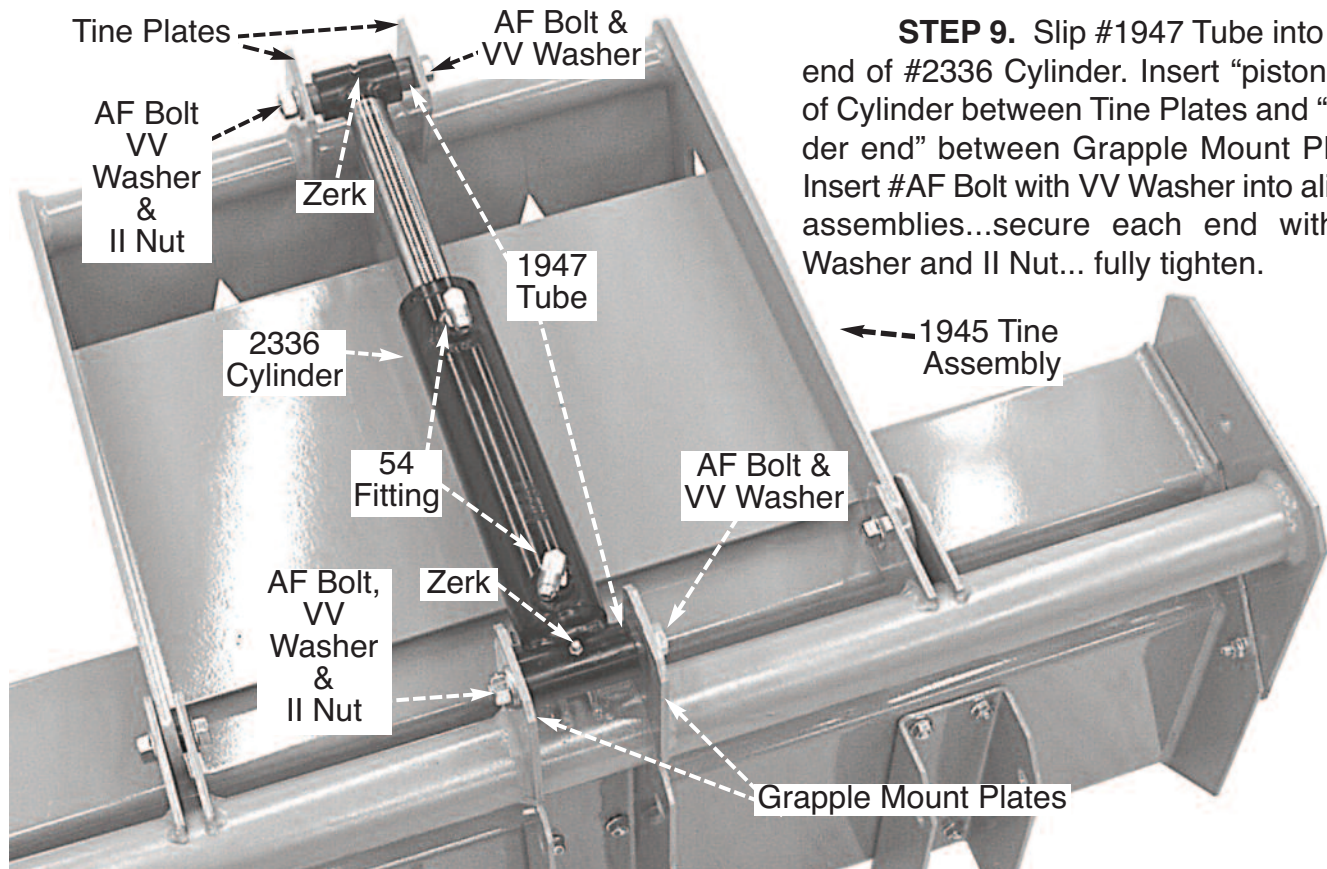
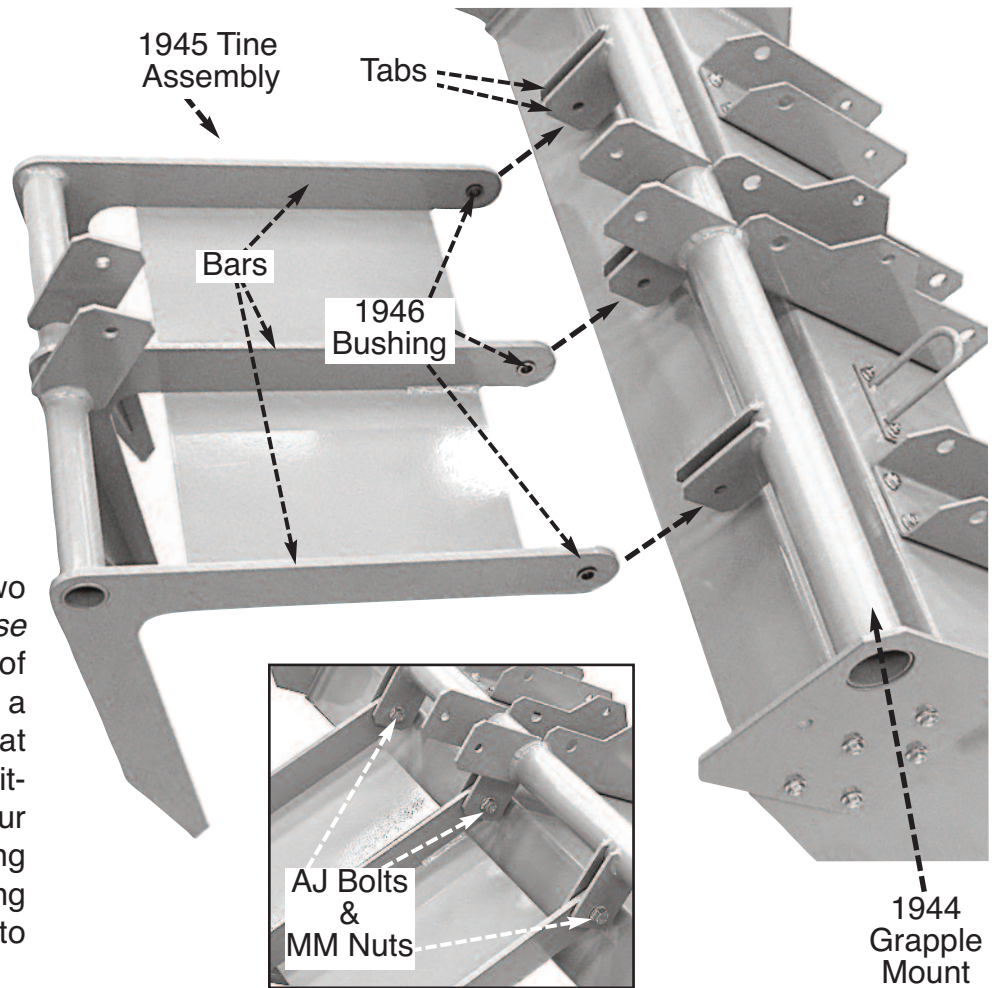
STEP 4. Locate #1995 Hose Loop Mount on rear outside face of #1940 Bucket Assembly. Align its two 3/8” holes with mating holes in rear face of Bucket. Secure outside with two #M Bolts and inside with two #HH Nuts... finger tight.

STEP 5. At this point, go over all your assembly making any necessary corrections. NOW... tighten firmly all Nuts and Bolts assembled to this point.

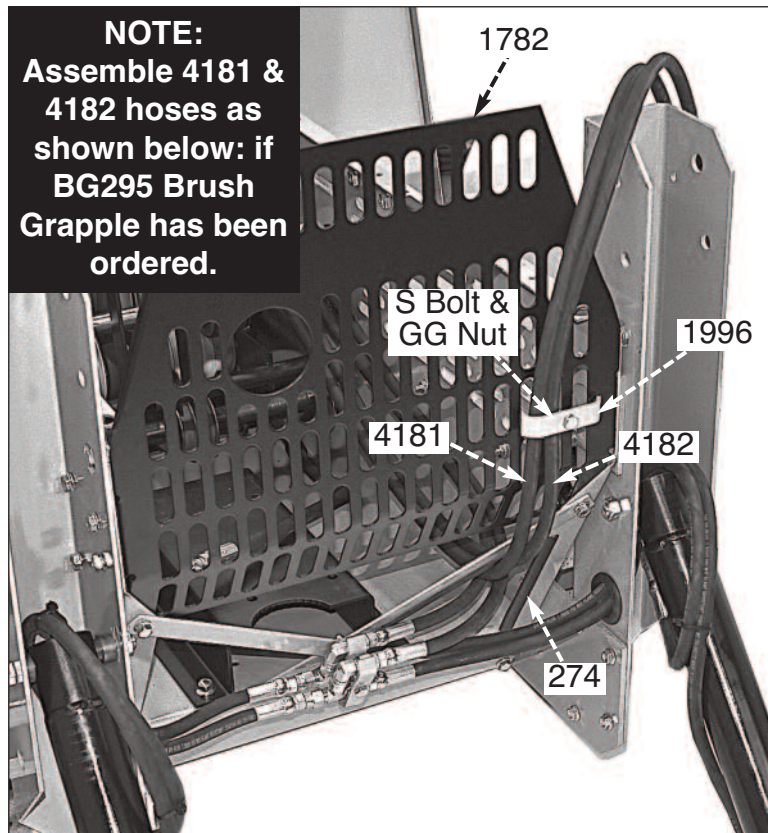
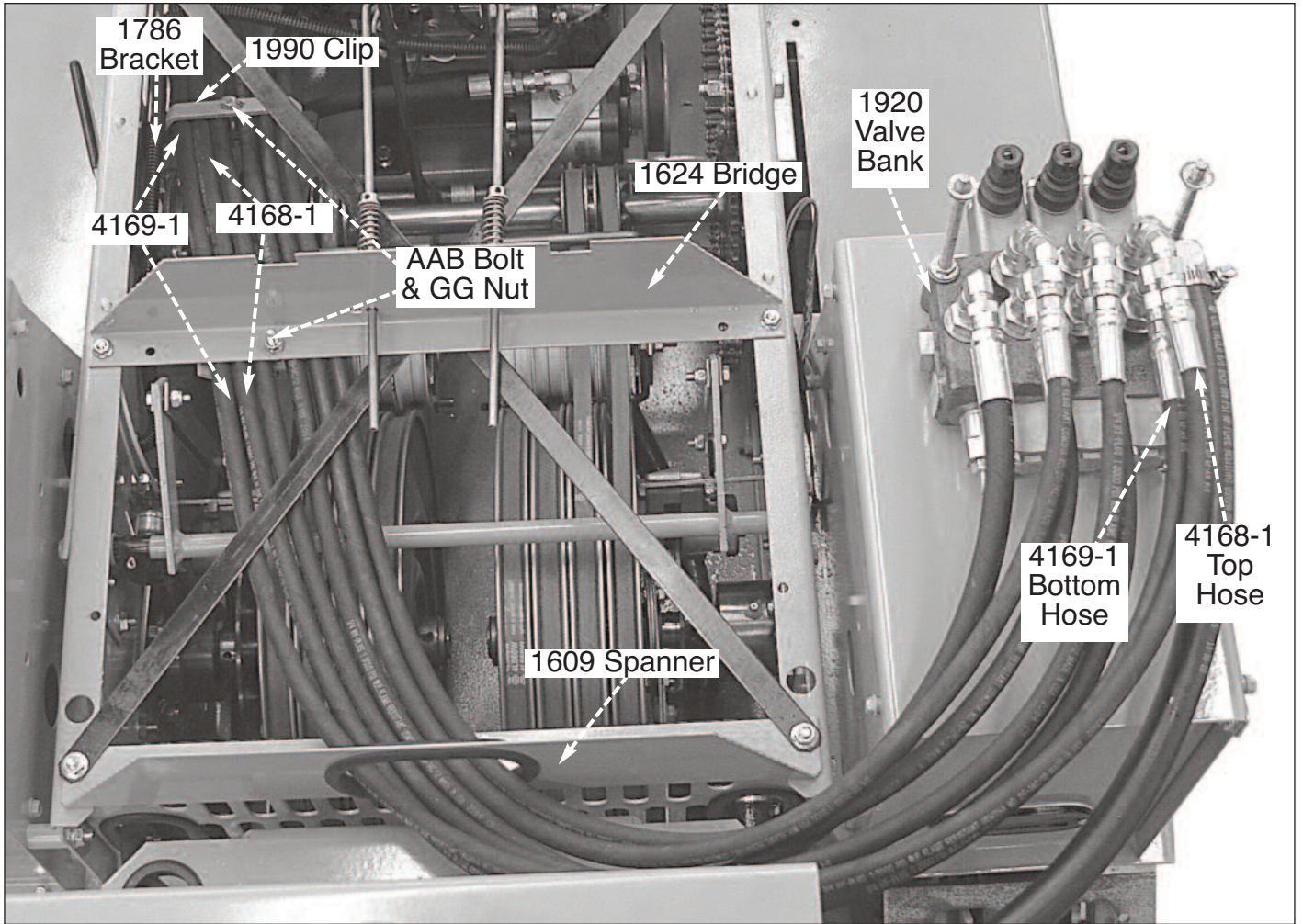
STEP 6. Insert a #1946 Bushing into the 5/8" hole in end of each "Bar" of #1945 Tine Assembly... center it on each Bar. Slip each of these Bar Assemblies between mating "Tabs".

STEP 7. Secure each Tube & Bar Assembly with an #AJ Bolt and #MM Nut... fully tighten. See Photo at right.

STEP 8. Wrap two turns of "teflon tape" clockwise around pipe threaded end of two #54 Fittings. "Thread" a Fitting into threaded holes at each end of Cylinder... turn Fittings *tightly* and complete your turns when forward Fitting faces rearward and rear Fitting faces rear and 10 degrees to left.



STEP 9. Slip #1947 Tube into each end of #2336 Cylinder. Insert "piston end" of Cylinder between Tine Plates and "cylinder end" between Grapple Mount Plates. Insert #AF Bolt with VV Washer into aligned assemblies...secure each end with VV Washer and II Nut... fully tighten.



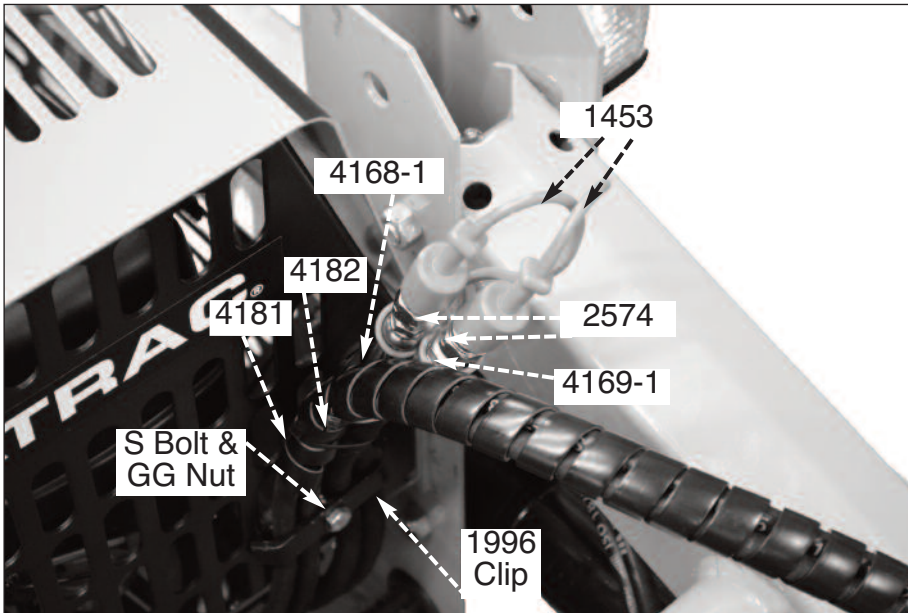
NOTE:
Assemble 4181 &
4182 hoses as
shown below: if
BG295 Brush
Grapple has been
ordered.

STEP 10. On the #1782 Grill, release the S Bolt & GG Nut so that #4181 & 4182 Hoses are loose... Photo at left.

Following Photo above, remove the two (2) #57 Caps from #1920 Valve Bank and attach Hoses #4169-1 & 4168-1... tighten.

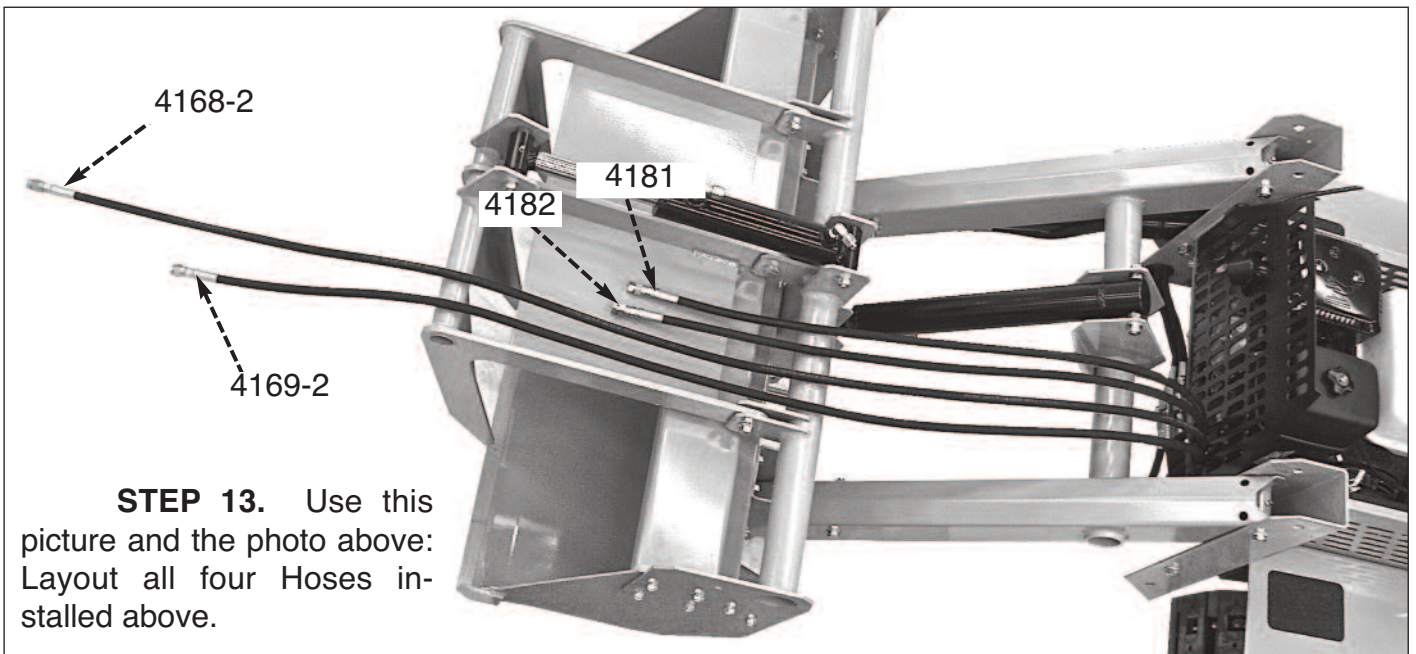
Route Hoses through hole in #1609 Spanner, then under #1624 Bridge and over its #1990 Clip, then over #1786 Bracket and under its #1996 Clip.

Pass under Grill following the path of your already installed #4181 & #4182 Hoses... see Photo at left and below.



STEP 11. In order from left to right if standing in front of grill: Hoses #4181, #4182, #4168-1, #4169-1 should all be behind #1996 Clip held loosely by #SS Bolt & GG Nut.

STEP 12. Wrap two turns of “teflon tape” *clockwise* around *pipe thread end* of hose #4168-1 & #4169-1. Attach loop of #1453 rubber female caps. “Thread” a #2574 Male Quick Connect Fitting onto ends at each hose... tighten.



STEP 13. Use this picture and the photo above: Layout all four Hoses installed above.

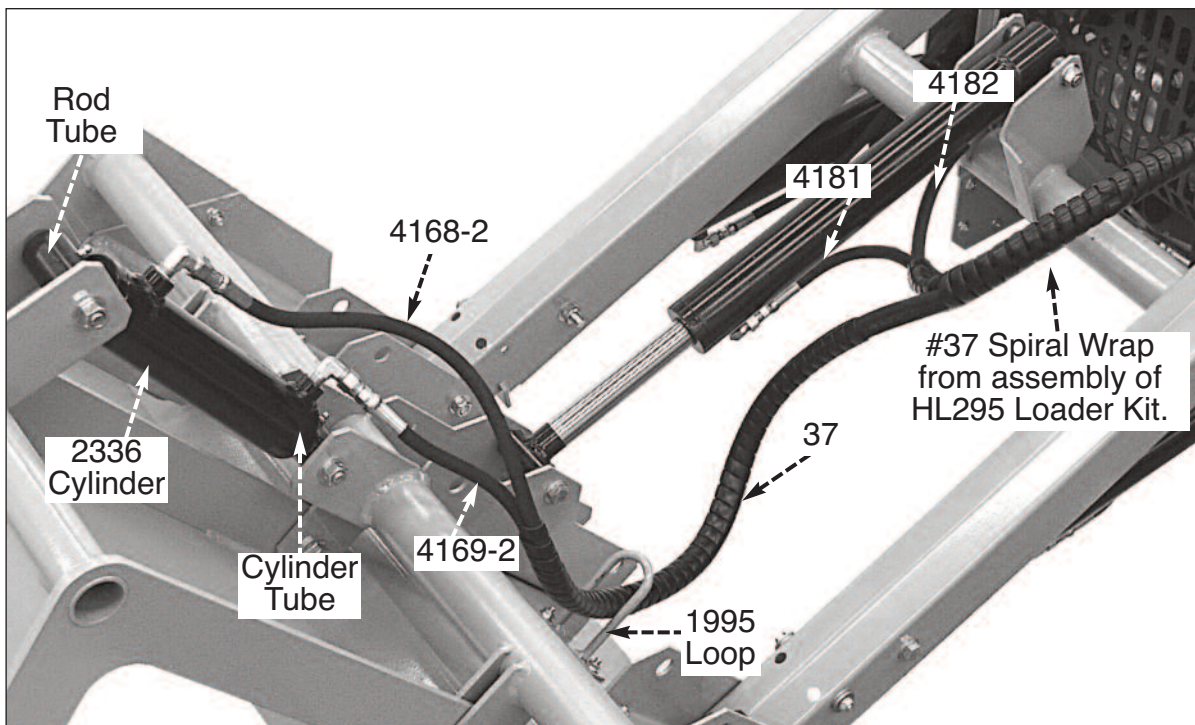
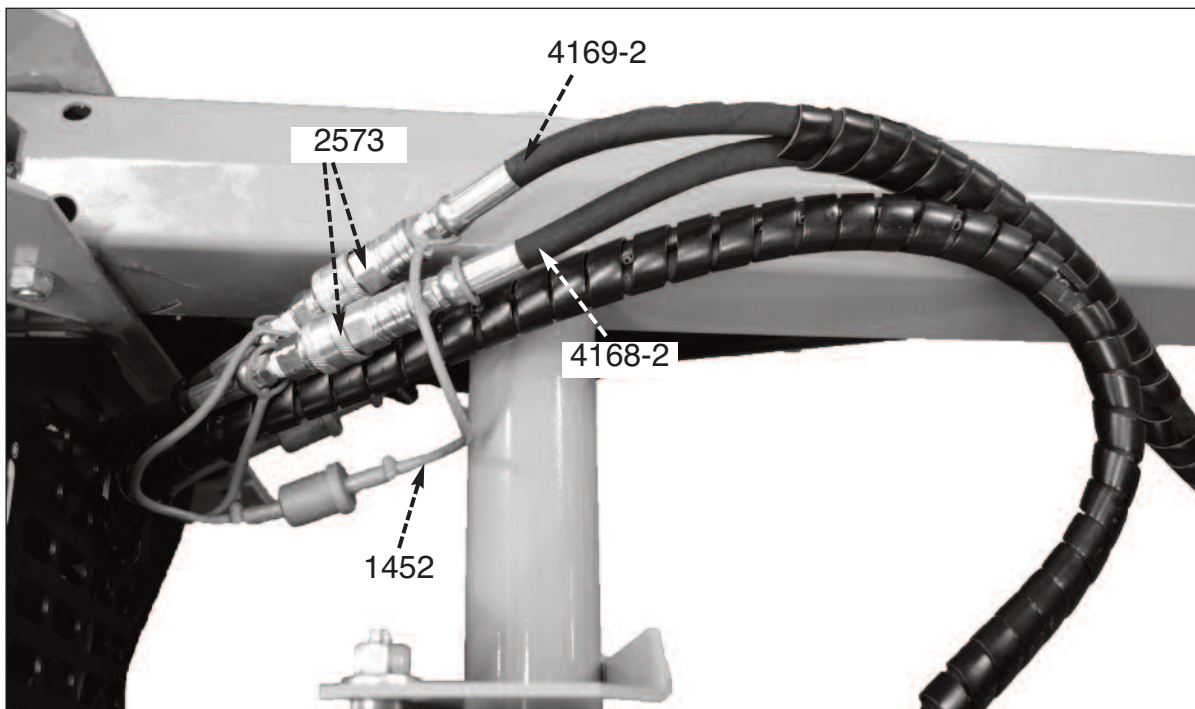
THE HOSES FINAL LENGTHS SHOULD BE AS FOLLOWS:

Hose #4182 - 41” Hose #4181 - 41”

At this time you will measure #4181 & #4182 Hose’s remaining length from the top of the #1990 Clip to the end of the Hose’s Coupling.

Hold these dimensions by “firmly” tightening the S Bolt & GG Nut holding the #1990 Clip against your Hoses... avoid crushing your Hoses with “over tightening” your #1990 Clip.

STEP 14. As previously done in step 12, wrap two turns of “teflon tape” *clockwise* around *pipe thread end* of hose #4168-2 & #4169-2. Attach loop of #1452 rubber male caps. “Thread” a #2573 Female Quick Connect Fitting onto ends at each hose... tighten and connect to hose #4168-2 to hose #4168-1 and also connect hose #4169-2 to hose #4169-1. Connect by pulling down female lip and pushing against male mitting. Release lip, fitting should connect. Check your work. Connect loose #1452 rubber male and #1453 rubber female covers together while hoses are connected.



STEP 15. Follow Photo above and connect each of the Four (4) Hoses to their appropriate Cylinder Fittings... NOTE: Hoses #4168-2 & 4169-2 pass through bottom of #1995 Loop. Once happy with hose path...tighten hoses to fittings.

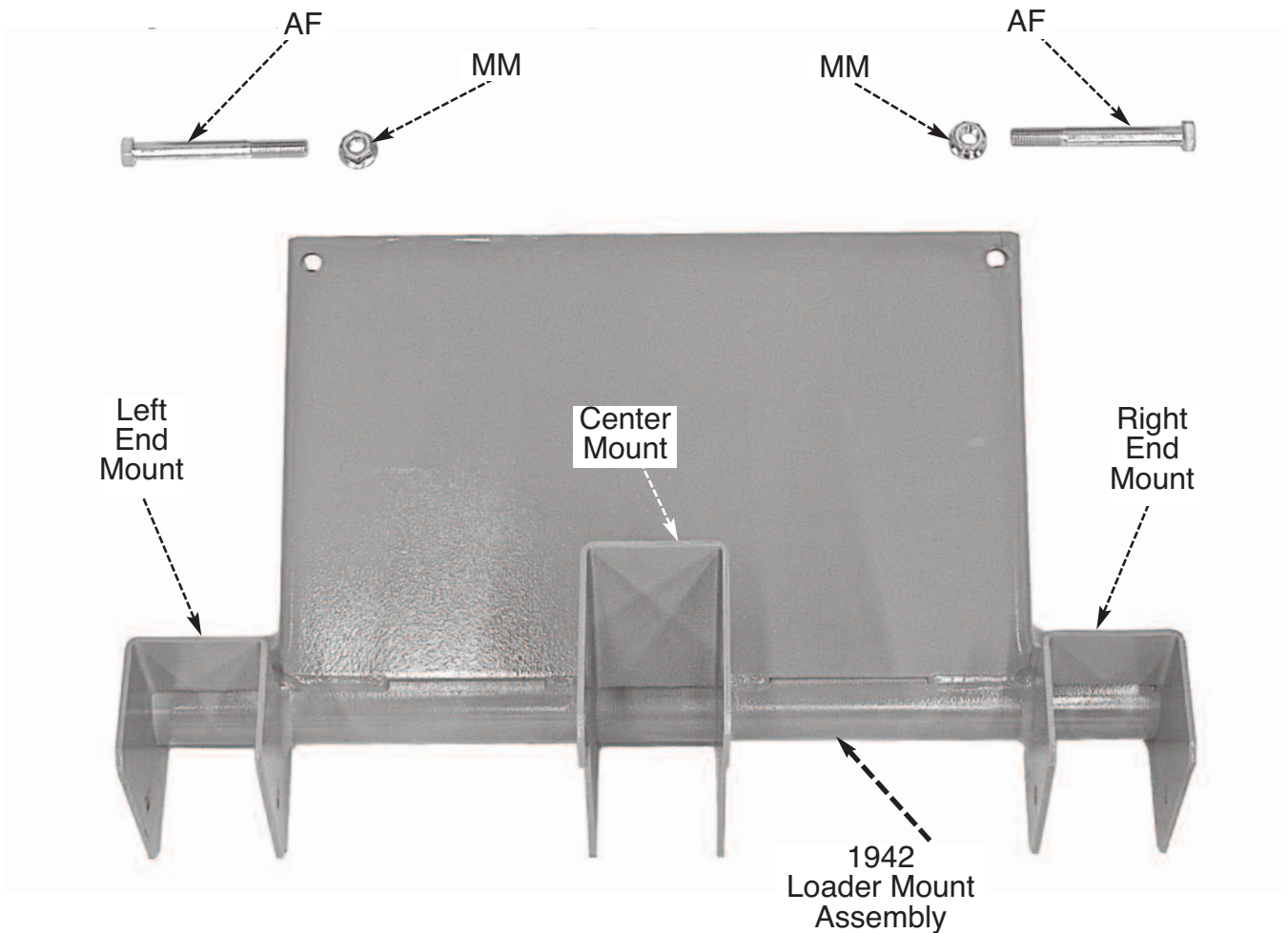
STEP 16. Install #57 Spiral Wrap over #4168-2 & 4169-2 Hoses to protect them in the area they *slide back and forth* in their #1995 Loop.

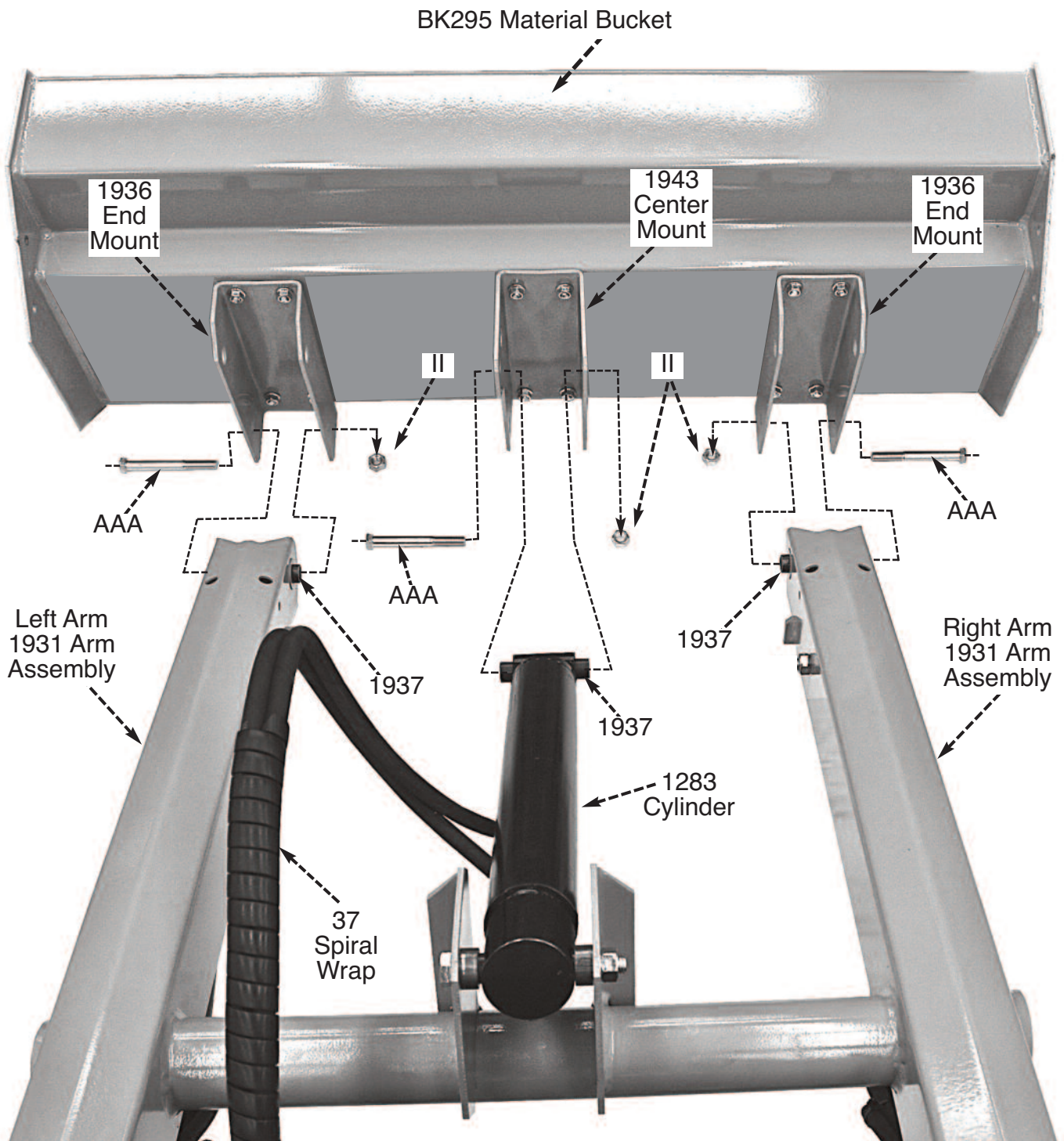
Loader Mount Kit

LM295

PARTS LIST

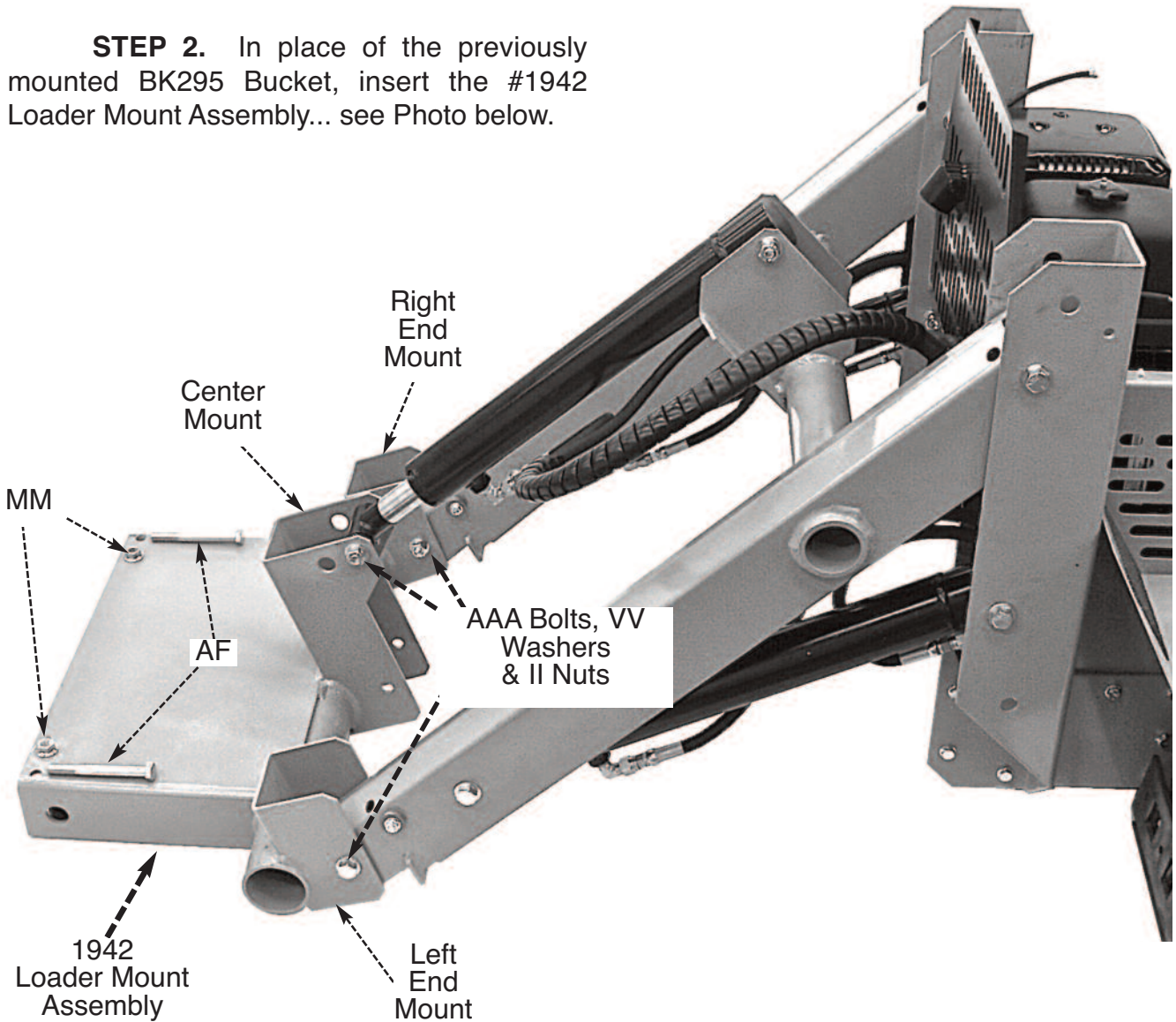
1942	Loader Mount Assembly	
AF	1/2-13x4-1/2 Bolt	(2)
MM	1/2-13 Spin Lock Nut	(2)





STEP 1. Remove the BK295 Material Bucket if your Magnatrac is so equipped. If you have a BG295 Grapple connected to your BK295 bucket, make sure to disconnect the 2 quick disconnect fittings before removing your BK295 bucket completely. Remove the two (2) #II Nuts and two (2) #AAA Bolts holding the Left & Right Arms of the #1931 Arm Assembly to the #1936 End Mounts. Lastly remove the one (1) #II Nut and #AAA Bolt securing the #1283 Cylinder to the Bucket's #1943 Center Mount... see Photo above.

STEP 2. In place of the previously mounted BK295 Bucket, insert the #1942 Loader Mount Assembly... see Photo below.



STEP 2. Align the #1942 Mount so that its Left, Right, and Center Mounts are in the identical position as the previous #1936 End Mounts and #1943 Center Mount were on the BK295 Bucket. Secure with the same #AAA Bolts, #VV Washers and #II Nuts used in the Bucket installation and tighten... check Photo above closely.

STEP 3. Mount your "Front Attachment" [Dozer Blade, Snow Blade, etc.] to the #1942 Loader Mount Assembly and secure with AF Bolts and MM Nuts... tighten securely!