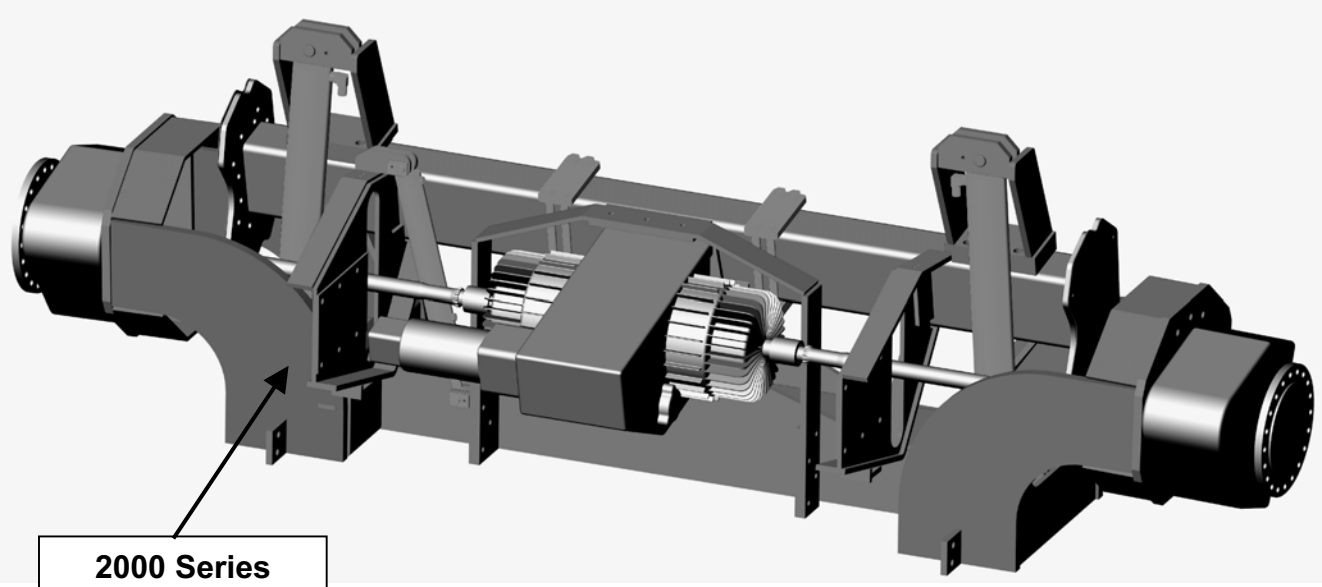
Model 2000H
Leveling System
Operator Manual

SN 280H-1001 through 280H-1081

Hillco, Inc. 107 1st Ave. Nezperce, Idaho 83543-0399 Phone: 800.937.2461 Fax: 208.937.2280

SERIAL NUMBER LOCATION



Write the serial number of the Leveling System on the line provided. If needed, give these numbers to your dealer when you need parts or information for your machine.

SERIAL NUMBER

Fill out this card and return it to Hillco, Inc. Also fill out the form below the card and retain it for your records.

Warranty Registration

Product Purchased _____

Model # _____ Serial # _____

(The product name, model # and serial # are located on the product label.)

Date of Purchase ____/ ____/ ____

Where purchased?_____

Purchased by _____

Mailing Address _____

Shipping Address _____

City, State _____ Zip _____

Phone # (____) _____ Fax # (____) _____

Where did you hear of this product?

_____

IMPORTANT!! This card must be completed and returned to validate the warranty. Thank you for purchasing this Hillco product.

OWNER'S OBLIGATION

WARRANTY REGISTRATION You must complete the Warranty Registration Card and submit it to Hillco, Inc. within thirty (30) days of the date of delivery to register the new equipment under Hillco's Warranty Policy.

Warranty Void if not Registered!

WARRANTY TRANSPORTATION COSTS It is the responsibility of the owner, at the owner's expense, to transport the equipment to the service shop of an authorized Hillco dealer or alternately for any travel or transportation expense involved in fulfilling this warranty.

MAINTENANCE SERVICE The operator's manual furnished to you with the equipment at the time of delivery contains important maintenance and service information. You should read the manual carefully and follow all maintenance and service recommendations. Doing so will result in greater satisfaction with your equipment and help to avoid service and warranty problems. Please remember that failures due to improper maintenance of your equipment are not covered by warranty.

TABLE OF CONTENTS

HILLCO

2000 Series
Leveling System
Operator's Manual

TABLE OF CONTENTS **2**

WARRANTY POLICY **3**

INTRODUCTION **4**

SAFETY **5**

SAFETY ALERT SYMBOL 5
OPERATION SAFETY 6
HYDRAULIC SAFETY 6
SERVICING AND MAINTENANCE SAFETY 6
HIGHWAY OPERATION AND TRANSPORT SAFETY 7
SAFETY LABELS 7
SAFETY LABEL LOCATIONS 8
SAFETY LABEL SPECIFICATIONS 9

OPERATION, SETUP, AND MAINTENANCE **10**

ELECTRICAL OPERATION 10
ELECTRICAL SETTINGS 11
LIMIT SWITCHES *11*
LEVELING CONTROLLERS *12*
MECHANICAL ADJUSTMENTS 13
FEEDER ADJUSTMENT FOR TIRE SIZE *13*
CONVEYOR DRUM FORE / AFT POSITION *13*
HEADER AND COMBINE CONNECTION *13*
FINAL DRIVE MOUNTING *14*
REAR AXLE WEIGHTING *14*
STEERING AXLE PIVOT SUPPORT POSITION *15*
AXLE STABLIZER *15*
GENERAL SHIELDING 15
HYDRAULIC SETTINGS 16
HYDRAULIC HOSES 16
HYDRAULIC PUMPS 17
HYDRAULIC CYLINDERS 18
GREASE LOCATIONS 19
FASTENERS 20
TIRE INFLATION 21
SCHEMATICS 22

WARRANTY POLICY

Hillco Leveling System Warranty

Hillco warrants the Hillco Leveling System to the original retail purchaser, or authorized transferee, to be free from defects in material or workmanship for a period of twelve (12) months following the warranty start date. Hillco additionally agrees to provide a one year warranty to the dealer and retail customer for Case parts or components that are modified or affected by the conversion, provided that those defects are attributable to the design or manufacture of the Hillco leveling system. Hillco's obligation under this warranty shall be limited to the repair or replacement, at Hillco's option, of any product or part which proves to be defective. All other costs, including labor and travel expense, are not the responsibility of Hillco. All warranty service must be provided by Hillco or an authorized Hillco Leveling System dealer using only authorized Hillco parts.

Warranty Procedure

The warranty start date shall be the date of sale of the Hillco Leveling System to the original retail purchaser or the first day of July preceding the first use season, whichever is earlier, or as otherwise authorized in writing by Hillco.

The Hillco Leveling System Warranty Registration Card must be returned to Hillco within 30 days of sale of such unit to the original retail purchaser. Warranty may be transferred to a second retail purchaser, during the warranty period, provided that an authorized Hillco Leveling System dealer completes a Case-IH warranty transfer form and a copy is sent to Hillco.

Warranty claims must be submitted to Hillco during the warranty period and must include the combine and Hillco Leveling System serial numbers. Hillco reserves the right to either inspect the product at the original retail purchaser's location, or the authorized Hillco dealer's location; or require it to be returned to Hillco, F.O.B. Hillco, for inspection.

Exclusions to General Warranty

This warranty does not cover:

1) Hillco Leveling Systems installed by anyone other than an authorized Hillco Leveling System dealer, Hillco or other party specifically authorized by Hillco.
2) Warranty claims directly resulting from improper installation.
3) Any product damaged by accident, abuse, misuse, or negligence after shipment from Hillco.
4) Any product altered or modified unless such alterations or modifications are specifically authorized by Hillco.

Limitation of Liability

Hillco makes no express warranties other than those which are specifically described herein. Any description of the goods sold hereunder, including any reference to buyer's specifications and any descriptions in circulars and other written material published by Hillco is for the sole purpose of identifying such goods and shall not create an express warranty that the goods shall conform to such description.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED. There are no implied warranties of merchantability or fitness for a particular purpose. This warranty states Hillco's entire and exclusive liability and buyer's exclusive remedy for any claim for damages in connection with the sale or furnishing of Hillco products, their design, suitability for use, installation or operation, or for any claimed defects herein. HILLCO WILL IN NO EVENT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER, NOR FOR ANY SUM IN EXCESS OF THE PRICE RECEIVED FOR THE GOODS FOR WHICH LIABILITY IS CLAIMED.

No representative of Hillco nor any dealer associated with Hillco has the authority to change the items of this warranty in any manner whatsoever, and no assistance to purchaser by Hillco in the repair or operation of any Hillco product shall constitute a waiver of the conditions of this warranty, nor shall such assistance extend or revive it.

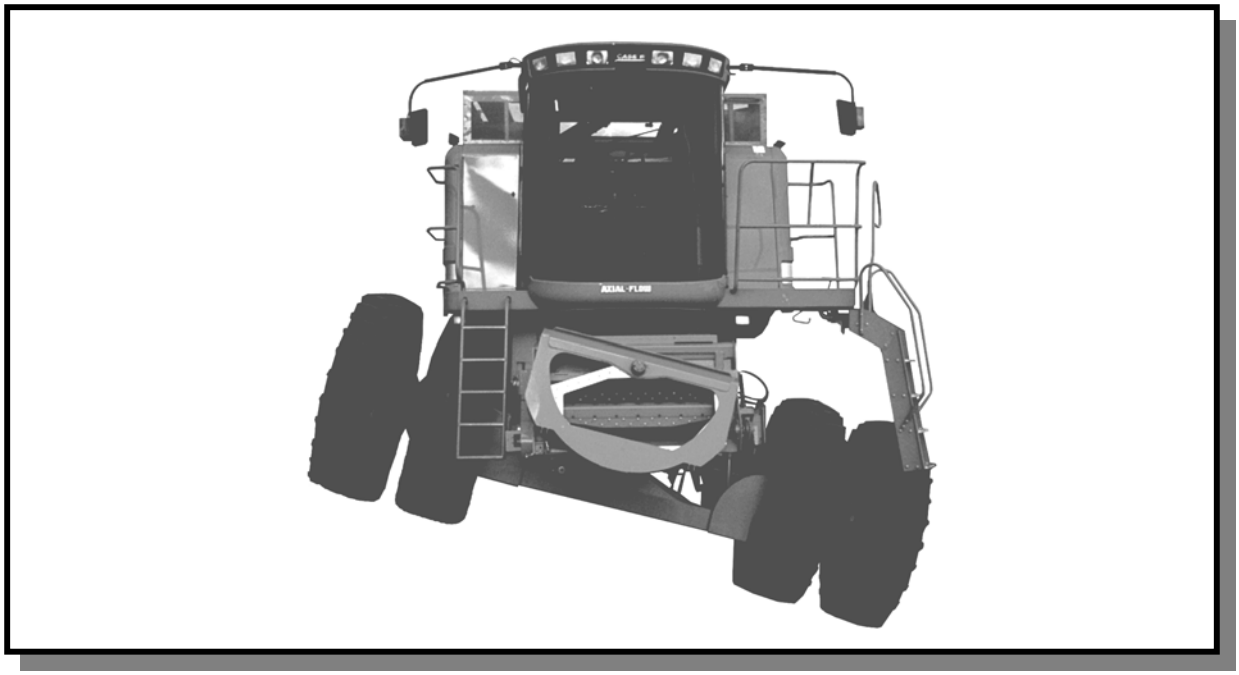
INTRODUCTION

Thank you for choosing the Hillco 2000 Series Leveling System to compliment your farming operation. This product has been designed and manufactured to meet the needs of a discriminating buyer for increasing the performance of a combine.

Safe, efficient and trouble free use of your Hillco 2000 Series Leveling System requires that you and anyone else who will be operating or maintaining the leveling system, read and understand the Safety, Operation, and Maintenance information contained in the Operator's Manual.

If extra copies of the operator's manual are needed, contact Hillco at 1-800-937-2461 and ask for document 80615M01-0.

Hillco 2000 Leveling System



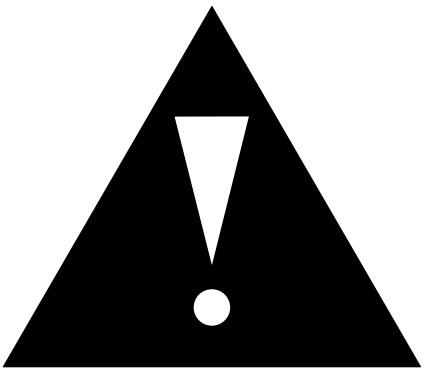
This manual covers the Hillco 2000 Series Leveling System built by Hillco. Use the Table of Contents as a guide when searching for specific information.

Keep this manual handy for frequent reference and to pass on to new operators or owners. Call your Hillco dealer or Hillco if you need assistance or information at 1-800-937-2461.

OPERATOR ORIENTATION – The directions left, right, front, and rear, as mentioned throughout this manual, are as seen from the combine operator's seat and facing in the direction of forward travel.

SAFETY

SAFETY ALERT SYMBOL



This Safety Alert symbol means
ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

The Safety Alert symbol identifies important safety messages on the Hillco 2000 Series Leveling System and in the manual. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety message.

SIGNAL WORDS

Note the use of the signal words **DANGER, WARNING**, and **CAUTION** with the safety messages. The appropriate signal word for each message has been selected using the following guidelines:

DANGER - An immediate and specific hazard which WILL result in severe personal injury or death if the proper precautions are not taken.

WARNING - A specific hazard or unsafe practice which COULD result in severe personal injury or death if proper precautions are not taken.

CAUTION - Unsafe practices which COULD result in personal injury if proper practices are not taken, or as a reminder of good safety practices.

OPERATION SAFETY

1. Read and understand the Operator's Manual and all safety labels before operating the leveling system.
2. Make sure that all controls are in the manual position before starting the combine.
3. Clear the area of all bystanders, especially children, before starting the leveling system and during operation.
4. Make sure all safety shields are in place before operating the combine.
5. Keep hands, feet, hair and clothing away from all moving and/or rotating parts.
6. Stay seated in the cab during operation.
7. Operate controls only when sitting in the seat of the combine.
8. To avoid engine damage, do not run the machine for extended periods of time when it is in the leveled over position.
9. Always travel at a safe speed. Use caution when making turns or traversing ditches.

HYDRAULIC SAFETY

1. Do not search for high pressure hydraulic leaks without hand and face protection. A tiny, almost invisible leak can penetrate skin, thereby requiring immediate medical attention.
2. Use cardboard or wood to detect leaks – never your hands!
3. Double check that all is clear before operating hydraulics.
4. Maintain proper hydraulic fluid levels.
5. Ensure all fittings and hoses are in good repair.
6. Do not make any repairs to the cylinders, disconnect valves, or disconnect any hoses connected to the cylinders, counterbalance valves, bulkhead mount or manifold without first contacting you authorized Hillco dealer. These hydraulic components stabilize the chassis of the combine. Improper repair or replacement of these components could lead to uncontrolled leveling of the combine's chassis.

SERVICING AND MAINTENANCE SAFETY

1. Review the Operator's Manual and all safety items before servicing or maintaining the leveling system.
2. Place all leveling system controls in the manual position, stop combine engine, wait for any moving parts to stop, block the tires, the header, and the cylinder areas before servicing, repairing, adjusting, or maintaining the leveling system.
3. Hydraulic oil is under pressure. Use caution when dealing with the hydraulic system.
4. Keep hands, feet clothing and hair away from all moving and/or rotating parts.
5. Clear the area of bystanders, especially children, when carrying out any maintenance, repairs or making any adjustments.

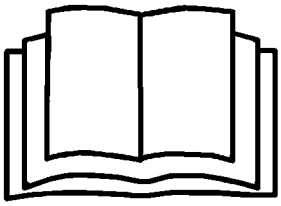
HIGHWAY OPERATION AND TRANSPORT SAFETY

1. Check with local authorities regarding combine transport on public roads. Obey all applicable regulations and laws.
2. Check clearance elevations and widths of combine for travel near power lines, bridges, trees, etc.
3. Make sure all leveling system controls are in the manual position for all transport and highway travel situations.
4. Always travel at a safe speed. Use caution when making corners or meeting traffic.

SAFETY LABELS

Familiarize yourself with the location of all safety labels. Read them carefully to understand the safe operation of your machine.

"Read Operator's Manual" Symbol

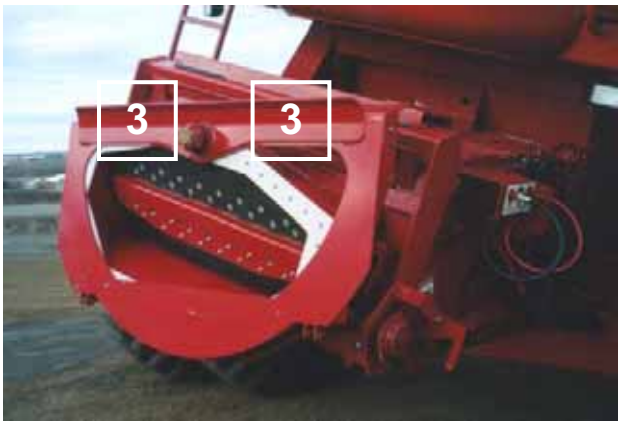


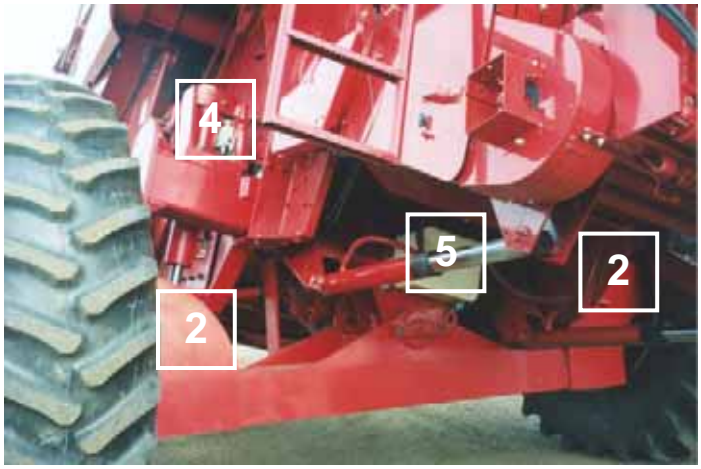
Decals which display the "Read Operator's Manual" symbol are intended to direct the operator to the Operator's Manual for further information regarding maintenance, adjustments and/or procedures for particular areas of the leveling system. When a decal displays this symbol refer to the Operator's Manual for further instructions.

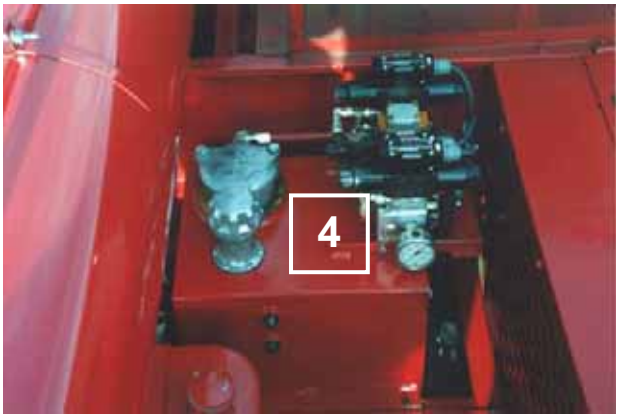
TO APPLY NEW OR REPLACEMENT LABELS:

1. Make sure the label area is smooth by removing any debris such as dirt or old labels.
2. Wash the area with soap and water and then dry it thoroughly.
3. After the area has completely dried, peal the backing off the safety label and place it onto the cleaned area.
4. Make sure all areas of the label have adhered to the machine by pressing down on the entire face of the label, including the corners.

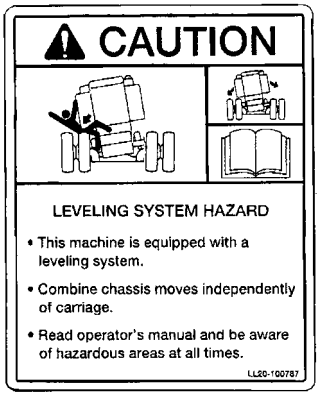
SAFETY LABEL LOCATIONS







SAFETY LABEL SPECIFICATIONS



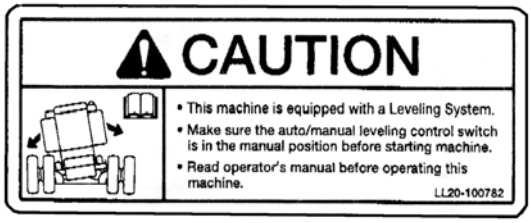
Label #1
Part number: LL20-100787
Locations: 2 (left and right side of combine above front tires)

Label #2
Part number: LL20-100783
Locations: 6 (front and back of quarter circles and each rear side of combine)

Label #3
Part number: LL20-100784
Locations: 2 (left and right side of transition face plate)

Label #4
Part number: LL20-100788
Locations: 3 (both cylinders and hydraulic reservoir)

Label #5
Part number: LL20-100786
Locations: 1 (front of electrical box)



Label #6
Part number: LL20-100782
Locations: 1 (inside cab window beyond console)

Label #7

These safety labels should be present and legible at all times. If new labels are needed, or you have any questions concerning safety, please contact Hillco at 1-800-937-2461.

Part number: LL20-100785
Locations: 1 (ladder well)

OPERATION, SETUP, AND MAINTENANCE

ELECTRICAL OPERATION

LEVELING SYSTEM CONTROLS

MANUAL LEFT / RIGHT LEVELING SWITCH

LEVEL LEFT: Push the switch to the left.

LEVEL RIGHT: Push the switch to the right.

AUTO / MANUAL LEVELING SWITCH

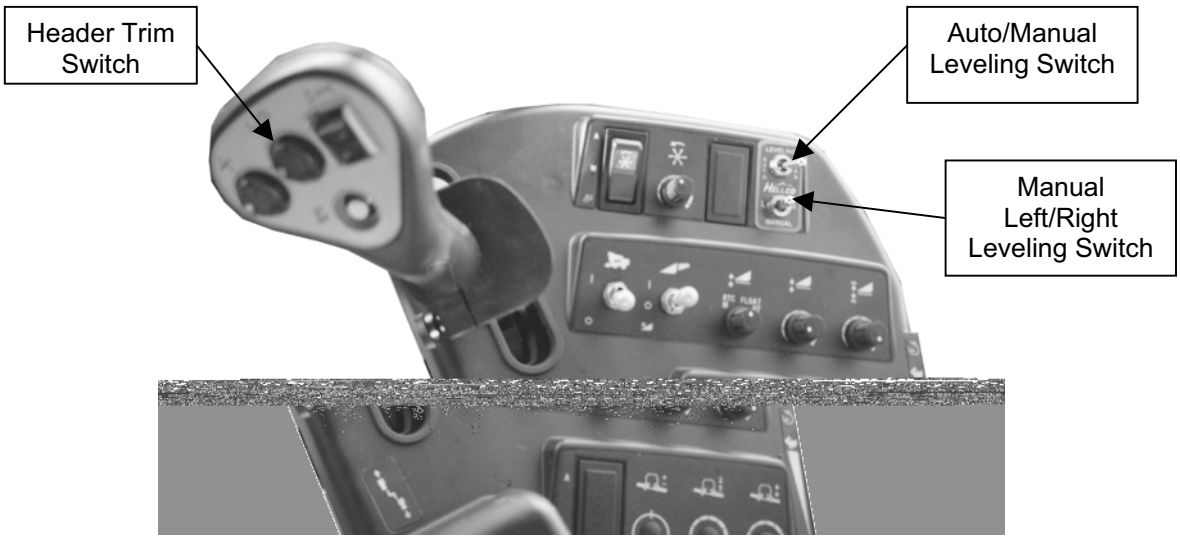
AUTO: Push the switch to the left to select automatic leveling operation. The controller monitors changes in slope and automatically keeps chassis of the combine level. The MANUAL LEFT / RIGHT LEVELING SWITCH will override the automatic leveling controls.

MANUAL: Push the switch to the right to select manual leveling operation. With the switch in this position the level left and right function are controlled manually.

HEADER TRIM SWITCH

TILT LEFT: Push the switch to the left to tilt the header counterclockwise.

TILT RIGHT: Push the switch to the right to tilt the header clockwise



ELECTRICAL SETTINGS

LIMIT SWITCHES

The leveling system is equipped with left and right level limit switches that disable the automatic leveling when the combine reaches maximum leveling in either direction. These switches are preset to ensure that leveling stops when either main cylinder reaches its limit.

IMPORTANT: With certain tire selections the limit switches can be used to prevent the need to modify the sheet metal on the left and right side panels of the combine. The operator assumes the liability for damage to the sheet metal in the event of a limit switch failure.

To set the limit switches, first park the combine on level ground and block the tires. Then raise the feeder spout and lock feeder lift cylinder. Place the auto/manual leveling switch in to the manual position. Lean the combine to the left as far as the sheet metal will allow or, when the cylinders come to the end their stroke. Next turn on the parking brake and shutdown the machine. The limit switches are located on each side of the control box near the main pivot pin. Align the limit switch actuator bracket so that it is aligned with the limit switch. Adjust the left limit switch actuator bolt one turn past the point where you can hear the contacts on the limit switch snap. Repeat this process for the right limit switch. Finally, check to see that the limit switches are working correctly by having someone monitor the pressure gauge on the reservoir while the operator completely levels the machine both directions. Make sure the person monitoring is secure and not in the engine compartment. If the pressure drops to the standby pressure when the combine reaches the extreme left and right positions, the limit switches are set correctly.

LEVELING CONTROLLERS

FUNCTION

The Hillco 2000H Series Leveling System is equipped with a two speed leveling system with manual control and automatic with manual override control. The low and high speed leveling controllers, located in the control box, monitor changes in slope and correct the position of the combine's chassis using dual speed leveling. The "L" low speed controller maintains leveling accuracy to +/- 1 ½ degrees by sending the leveling signal to the low speed leveling control valve on the manifold. The "H" high speed controller energizes the high speed leveling control valve on the manifold to add to the flow of the low speed leveling control valve when chassis connections exceeding +/- 4 ½ degrees are necessary.

CONTROLLER ADJUSTMENT

LOW SPEED Low speed leveling is properly set if the combine returns to level from both directions. If the combine does not level up evenly from both sides, the low speed controller (marked "L") should be adjusted. To adjust, loosen the two lower mounting screws that mount the controller to the swinging mount plate. The bottom holes in the leveling controller are slotted to allow the controller to be rotated. Move the bottom of the controller in the direction you wish to move. Once the controller has been moved level the combine to each side and return to level using automatic leveling and again check for level. Repeat as necessary.

HIGH SPEED High speed leveling is properly set if the combine shifts from high to low speed in approximately the same position from left and right. Because of the small trip angle difference between high and low speed leveling and the high response speed, it may appear that during testing on level ground there is no perceptible shift from high to low speed. This is common if the controllers are adjusted properly. However, if the combine has a long defined period of low speed leveling from one direction and not from the other, the high speed controller should be adjusted to balance the leveling response from both sides.

Note: The 1 ½ degree low speed and 4 ½ degree high speed trip angles are internally adjusted in the leveling controllers. These trip angles have been pre-adjusted for maximum performance by Hillco and should not be readjusted without first contacting Hillco for additional adjustment instructions.

MECHANICAL ADJUSTMENTS

FEEDER ADJUSTMENT FOR TIRE SIZE

Adjust the draw bolts on the feeder adapter to obtain the proper header tip and cutter bar height. The chart supplied in the Axial Flow® Operators Manual will no longer be a correct guide to adjust the feeder adapter because of the height increase needed for the leveling system.

CONVEYOR DRUM FORE / AFT POSITION

After the feeder has been adjusted for the correct tire size, the conveyor drum must be repositioned. The position of the conveyor drum should be set fore or aft so that there is a ¼ inch to ½ inch distance between feeder chain slat tip and the paddle beater.

HEADER AND COMBINE CONNECTION

Refer to the Axial Flow® Operators Manual for instructions on connecting the header to the combine.

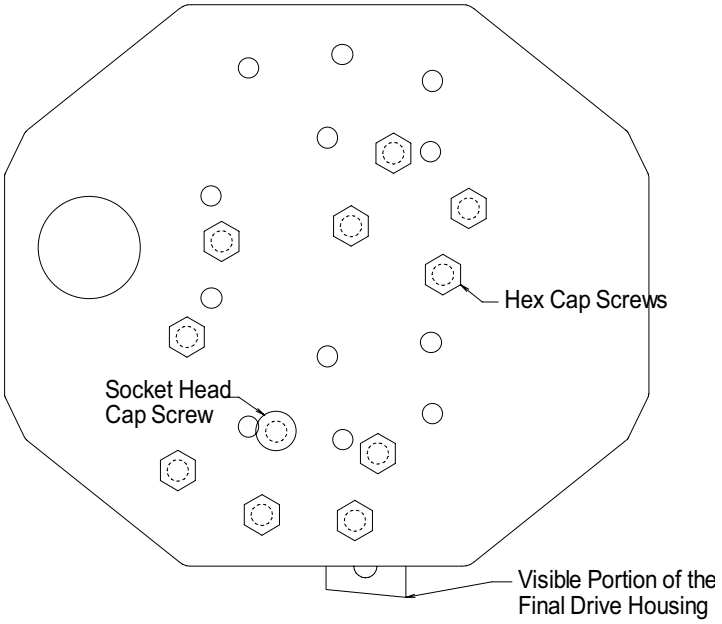
> Note: Additional hose length will need to be added to the hydraulic reel drive, reel fore/aft adjustment, and reel lift hoses on some header models.

Case-IH 1010 and 1020 headers are mounted on combines with the 2000 Series leveling system with no modification. All 800 series, 1015, and all corn heads require a header installation kit to function properly. Contact your dealer for additional information on these kits.

FINAL DRIVE MOUNTING

Use the following diagram to determine which bolt holes are used to bolt the final drive housing to the final drive mount plate on the undercarriage. Only the high clearance position is available for 2000H leveling systems

Final Drive Bolt Pattern for 1600, 2100, and 2300 Series Combines



REAR AXLE WEIGHTING

Proper rear axle weighting of a combine equipped with a 2000 Series leveling system is critical to the performance and safety of operation. Rear axle weighting increases the tip angle of the combine to improve down hill maneuvers. The appropriate weighting is dependent on such items as feeder house length, header selection, and tire selection. Consult your authorized 2000 Series dealer for weighting information.

Weight can be added to the rear axle through:

1) Hillco Rear Axle Weights (136 lb. Ea., Maximum # 15)
2) Calcium Chloride in rear tires
3) Case Rear Axle Weight System

(Do not attempt to use both Hillco and Case weights together. There is not adequate clearance between the weights.)

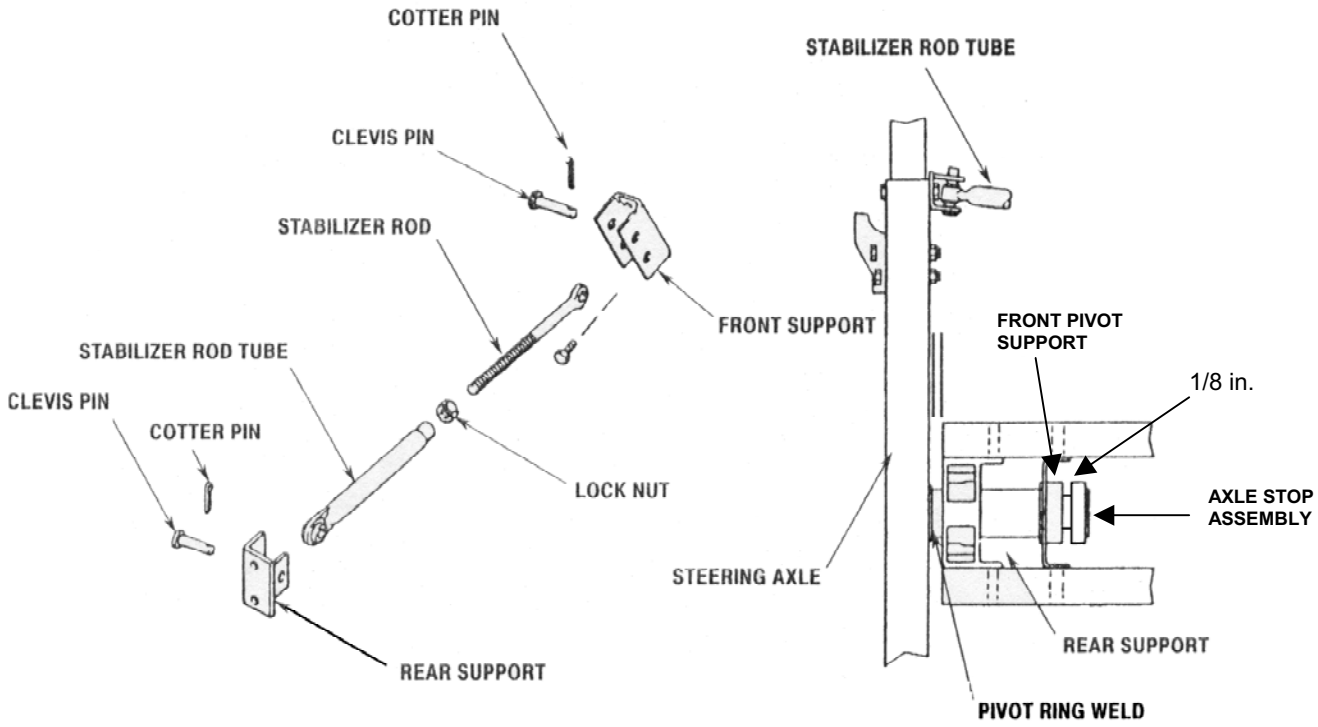
The responsibility for making the final determination of appropriate weighting lies with the operator. When first operating the 2000 Series leveling system in hillside conditions, begin operation on gradual slopes and work up to more severe slopes only after you have determined that rear axle weighting is appropriate for downhill maneuvers. The first indication of insufficient rear axle weighting is sluggish or unresponsive steering while traveling down hill. This effect will worsen if the operator decelerates. Make sure rear axle weighting is sufficient for safe down hill maneuvers, under normal deceleration, in your most severe down hill conditions. **Use of grain tank extensions are strictly forbidden. Use of such extensions voids both the Hillco and Case Corporation new equipment warranties.**

STEERING AXLE PIVOT SUPPORT POSITION

The steering axle pivot support position may need to be adjusted after the correct tires and header are installed on the combine. The combine should sit level to two inches high in the rear once the steering axle pivot support is in the correct position. Consult your combine's operator manual for more information on adjusting the pivot support position.

AXLE STABLIZER

After the steering axle pivot support is in the correct position the axle stabilizer may need to be adjusted. Install the axle stabilizer in the front support as close to horizontal as possible with the clevis pin and the cotter pin. The front support may have to be repositioned to get the axle stabilizer horizontal. Adjust the length of the axle stabilizer to get 1/8 inch between the front edge of the front pivot support and the axle stop assembly.



GENERAL SHIELDING

Before operating the combine all shields must be in place and be in working condition.

Shield to tire clearance needs to be checked once the correct tires are installed on the combine. Check to see if the clearance is correct by having someone watch the tire and shields as the operator leans the combine to the far right and far left. Some tire selections require limit switches to be set slightly early to allow enough tire clearance between the left and right front side panels.

HYDRAULIC SETTINGS

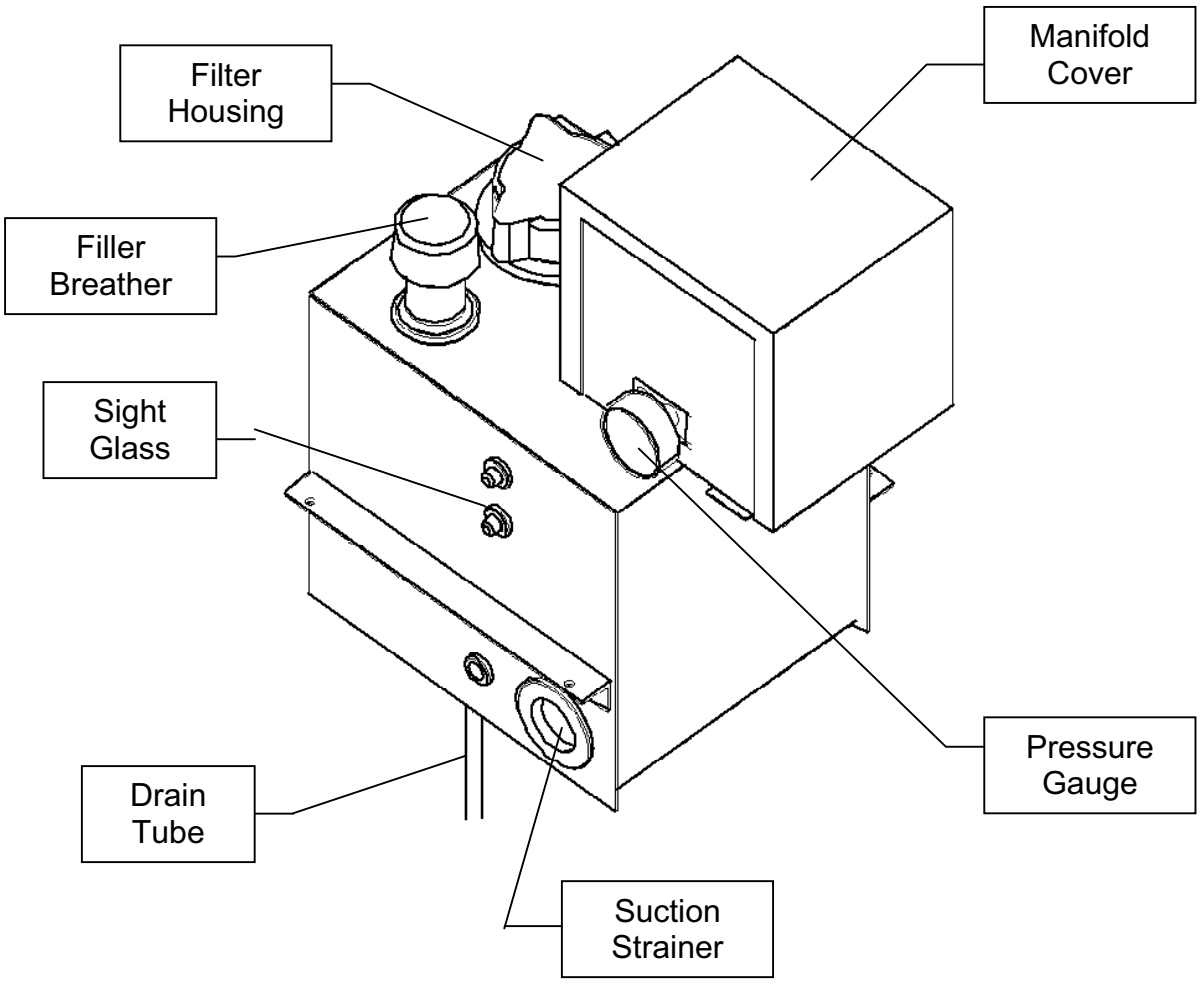
Refer to the Hydraulic Safety section located on page 6 for precautions regarding the hydraulic system.

IMPORTANT: All adjustments on the hydraulic system are preset at the factory for optimal leveling and header trim performance. DO NOT MAKE ANY ADJUSTMENTS TO THESE SETTINGS WITHOUT FIRST CONTACTING YOU AUTHORIZED HILLCO DEALER.

HYDRAULIC HOSES

Inspect hydraulic system for leaks, damaged hoses, improper routing, and loose fittings.

Hydraulic hoses that are not routed correctly could become warn from working against abrasive edges or moving parts. If abrasions or holes do occur, the hydraulic hoses can only be repaired by replacement. **Do not attempt repairs with tape or cements.** High pressure will burst such repairs and cause system failure and possible injury.



Hydraulic Hose Connections – When tightening loose hoses on the cylinders, pump, etc., always use one wrench to keep the hose from twisting and another wrench to tighten the union. Excessive twisting will shorten hose life and allow fitting to loosen during operation. Do not over-tighten fittings or adapters.

To check the hydraulic fluid level, park the combine on level ground. If the bottom sight glass is full, the reservoir has enough fluid. If more fluid is needed, remove the filler cap and add enough CASE-IH HY-TRAN PLUS® fluid to be seen in the upper sight glass. Do not overfill the reservoir. To drain the reservoir remove the drain plug on the drain tube coming out of the bottom left hand side of the reservoir.

Replace the hydraulic filter at the reservoir after the first 50 hours of operation. Then replace the CASE-IH HY-TRAN PLUS® fluid and filter after every 600 hours of operation. In the event of hydraulic contamination clean the suction strainer and reservoir and replace the hydraulic oil and filter.

High speed leveling, low speed leveling and header trim speeds are preset at the factory. If different speeds are desired please contact your Hillco dealer.

HYDRAULIC PUMPS

IMPORTANT: The hydraulic pump for the leveling system is driven from the auxiliary pump drive port on the engine. If the pressure or suction lines going to this pump are removed, and the pump is allowed to drain, the pump must be refilled with CASE IH HY-TRAN PLUS® before the combine can be restarted.

IMPORTANT: 2300 series combines use a drive though style hydraulic pump for the leveling system. This pump is needed to accommodate the gear pump used to operate the combine's rotary screen. The rotary screen gear pump draws its hydraulic oil from the PTO reservoir. In the event where hydraulic fluid is removed from the rotary screen gear pump, CASE IH HY-TRAN PLUS® must be added to the PTO reservoir until the fluid reaches the full mark on the dipstick. Refer to your Axial Flow® operator's manual for more information.

HYDRAULIC CYLINDERS

IMPORTANT: Each leveling cylinder is equipped with a safety valve that is in place to prevent unintentional leak down of the cylinder. These safety valves are preset at the factory, and should not be adjusted.

DANGER: Do not make any repairs to the cylinders, disconnect valves, or disconnect any hoses connected to the cylinders, counterbalance valves, bulkhead mount or manifold without first contacting you authorized Hillco dealer. These hydraulic components stabilize the chassis of the combine. Improper repair or replacement of these components could lead to uncontrolled leveling of the combine's chassis.

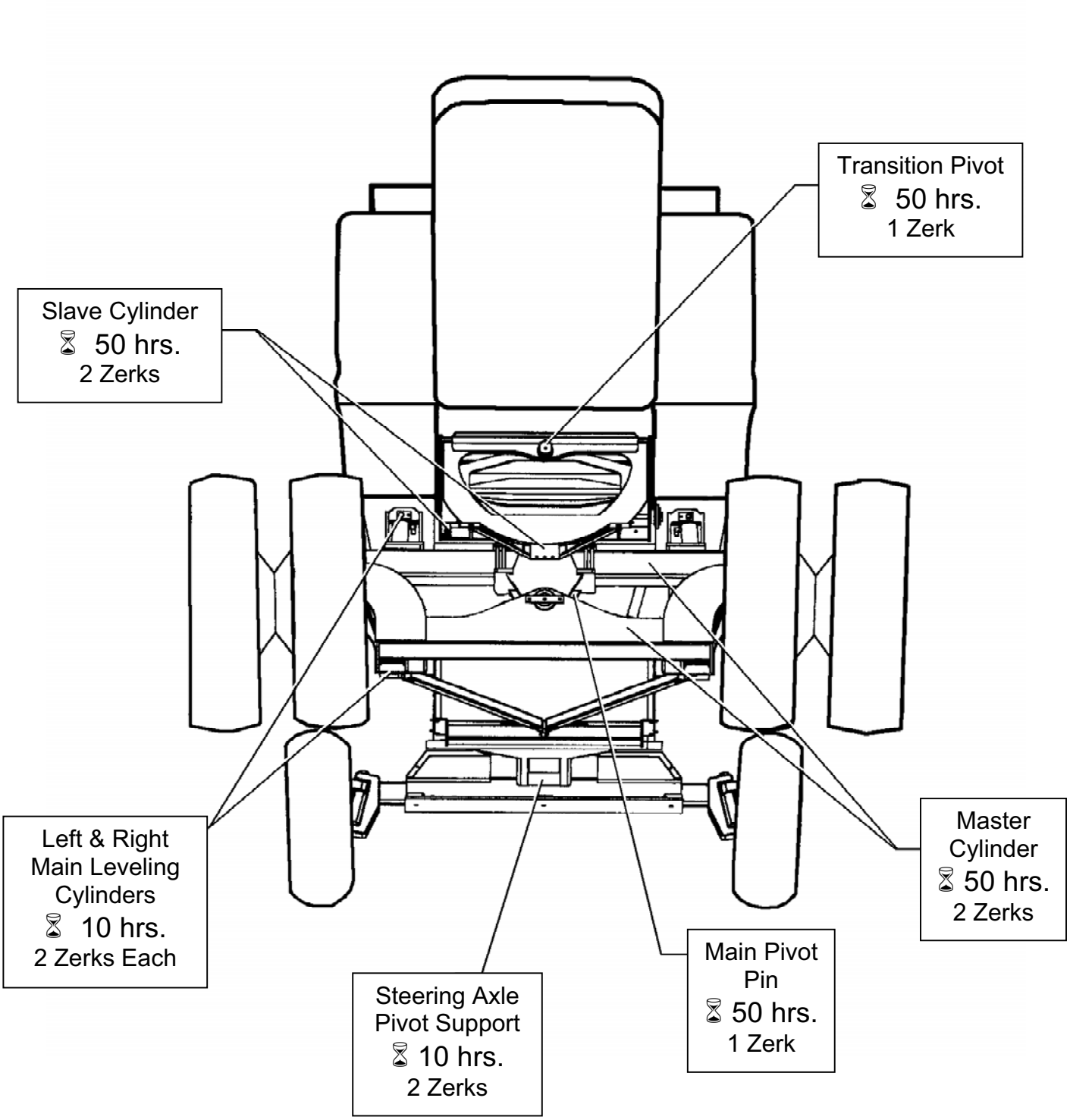
Hydraulic schematics for this leveling system are located on page 26.

FINAL DRIVE OIL LEVEL

Once the final drive is mounted to the undercarriage the output shaft of the final drive is 3 inches below the input shaft. This will cause the fluid level to come to the bottom of the fill hole with only 6 quarts of oil in the final. 1600, 2100, and 2300 series final drives hold a total of 13 quarts of oil when they are filled. If the final drives are drained they need to be refilled through the breather hole in the top of the final with 13 quarts of oil or 7 quarts past the point where fluid comes to the bottom of the fill hole.

GREASE LOCATIONS

Use Case-IH 251H EP grease or equivalent NLGI No. 2 Multi-Purpose Lithium Grease.



FASTENERS

Check Bolt Tightness

- After the first 10 hours of operations
- Every season

The following bolts are torqued to special specifications because of the application in which they are used.

Upper Cylinder Mount Bolts: 600 lb. Ft. (Clean and Dry)

Transmission Mount Bolts: 210 lb. Ft Flat Head Socket Cap Screws
(Locktite 242 medium grade on threads and socket)

Overcarriage Bolt Bracket Bolts: 250 lb. Ft.
(Locktite 242 medium grade on threads)

Final Drive Housing Bolts: Case IH® torque specifications

Drive Wheel Hub Bolts: Case IH® torque specifications

Steering Wheel Hub Bolts: Case IH ® torque specifications

IMPORTANT: Consult your Case IH® operator's manual to verify that correct bolts and spacers are used for the wheel application.

Bolt Torque Specifications

(For Hillco 2000 Series Leveling System Only)

IMPORTANT: Torque Specifications For Certain Fasteners May Vary From This Chart Do Not Use Any Of The Bolt Torque Specifications Listed In This Chart Without First Reading The Bolt Torque Information Listed Above

GRADE 5		GRADE 5			GRADE 8		GRADE 8	
				BOLT SIZE				
(Fine Thread)		(Coarse Thread)			(Fine Thread)		(Coarse Thread)	
14 Nm	10 lb. ft.	12 Nm	9 lb. ft.	1/4	10 lb. ft.	14 Nm	12 lb. ft.	16 Nm
28 Nm	21 lb. ft.	26 Nm	19 lb. ft.	5/16	25 lb. ft.	34 Nm	28 lb. ft.	38 Nm
52 Nm	38 lb. ft.	47 Nm	35 lb. ft.	3/8	50 lb. ft.	68 Nm	55 lb. ft.	75 Nm
81 Nm	60 lb. ft.	71 Nm	52 lb. ft.	7/16	70 lb. ft.	95 Nm	80 lb. ft.	108 Nm
122 Nm	90 lb. ft.	108 Nm	80 lb. ft.	1/2	120 lb. ft.	163 Nm	130 lb. ft.	176 Nm
156 Nm	115 lb. ft.	136 Nm	100 lb. ft.	9/16	145 lb. ft.	197 Nm	165 lb. ft.	224 Nm
217 Nm	160 lb. ft.	190 Nm	140 lb. ft.	5/8	195 lb. ft.	264 Nm	225 lb. ft.	305 Nm
366 Nm	270 lb. ft.	325 Nm	240 lb. ft.	3/4	345 lb. ft.	468 Nm	385 lb. ft.	522 Nm

TIRE INFLATION

Keep the tires properly inflated to the pressure shown in the inflation pressure tables for the front and rear tires. Both under-inflation and over-inflation are detrimental to tire life. Don't re-inflate a tire that has been run flat or when there is obvious or suspected damage to the tire or wheel components. Check the tire pressure weekly or after 50 hours of operation.

WARNING: *When inflating tires, use a clip on air chuck and extension hose long enough to allow you to stand to one side and NOT in front or over the tire assembly. Use a safety cage if available.*

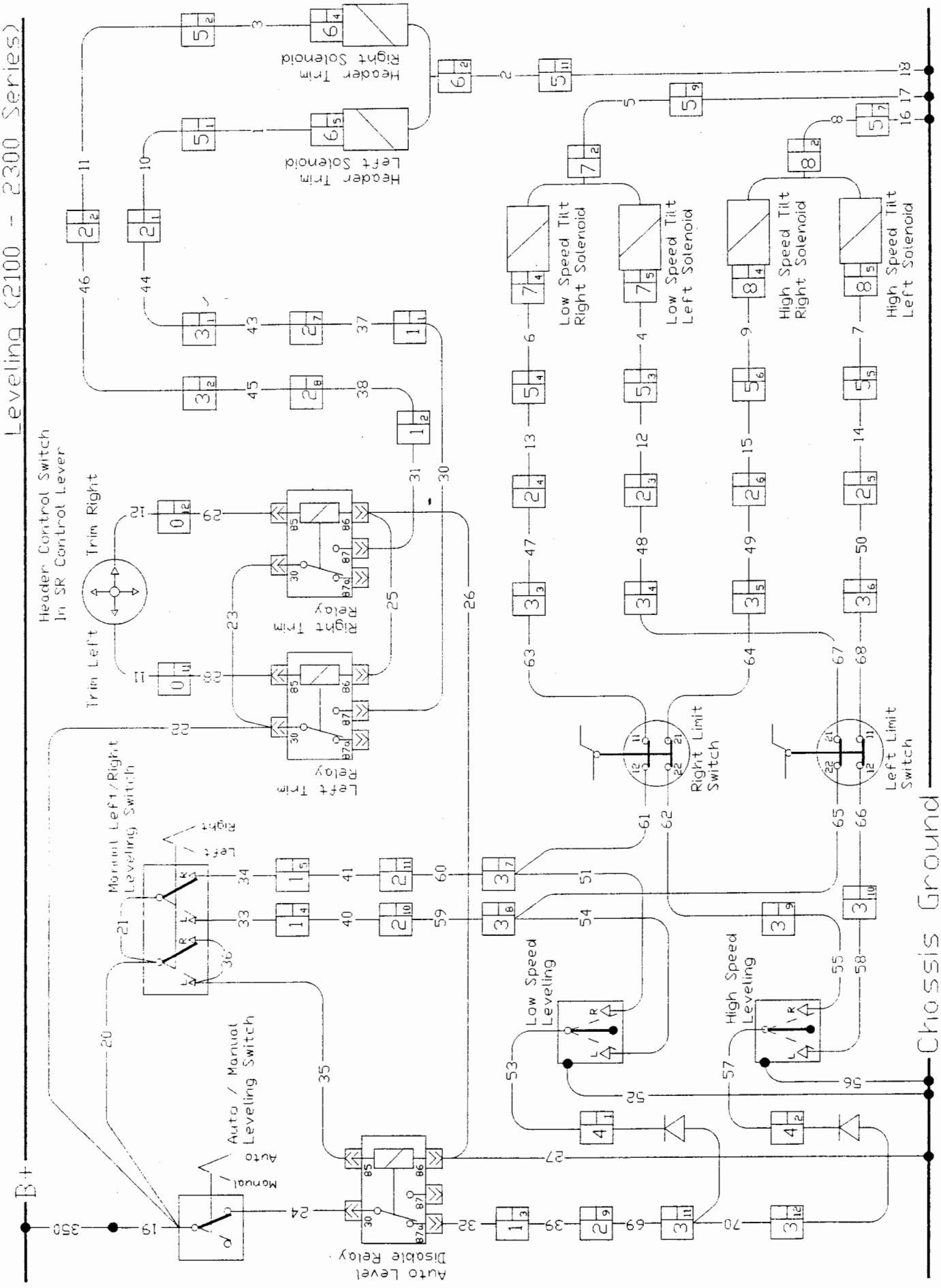
WARNING: *A tire can explode during inflation and cause serious injury or death. Never increase air pressure beyond 35 PSI to seat the bead on the rim. Replace a tire if it has a defect. Replace a wheel rim which has cracks, wear or severe rust. Make sure that all the air is removed from a tire before removing the tire from the rim. Never use force on an inflated or partially inflated tire. Make sure the tire is correctly seated before inflating.*

TIRE PRESSURE CHART

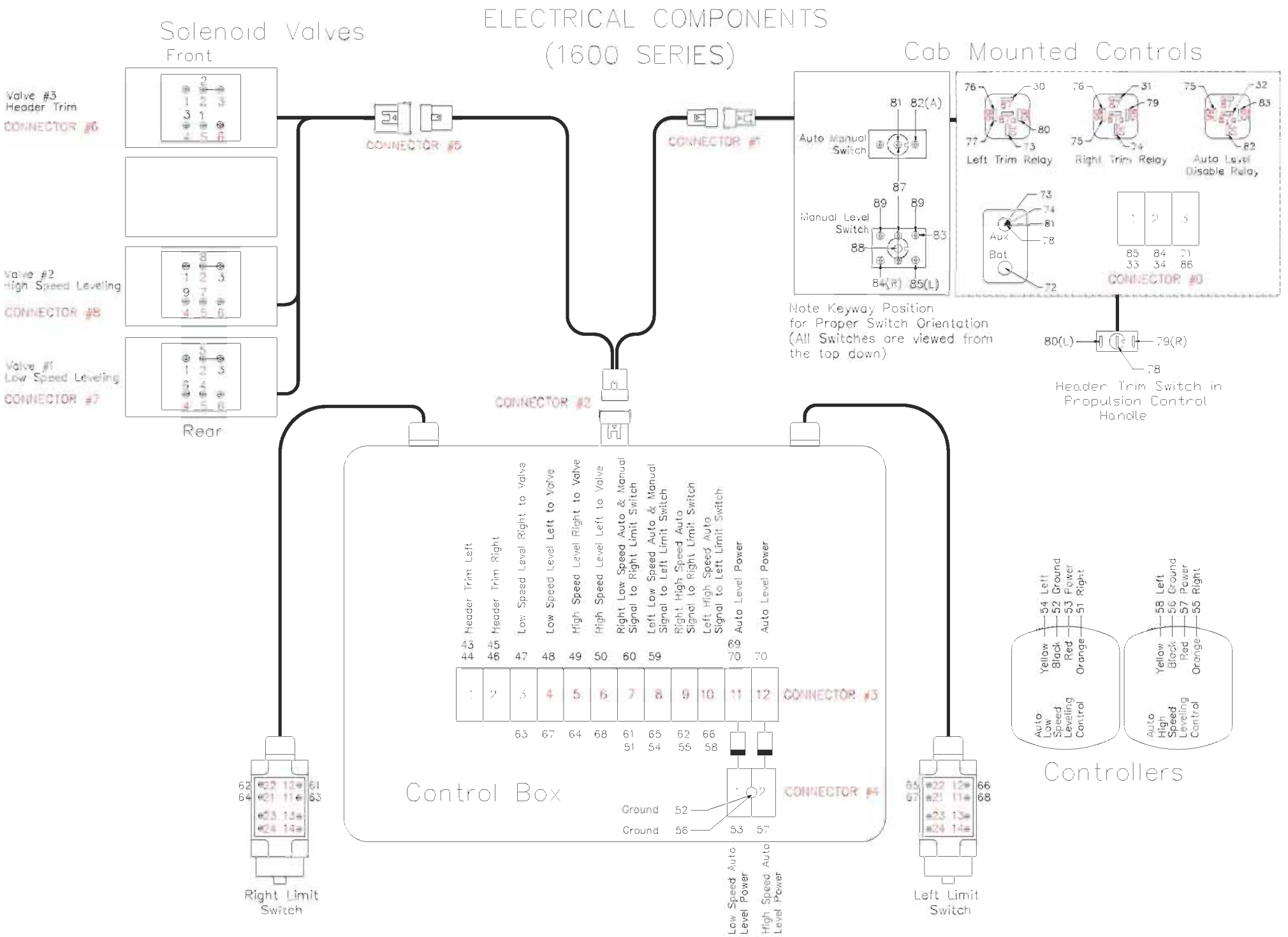
Tire Size	Ply Rating	Tread Type	Tire Pressure	
			PSI	(kPa)
14.9-24	6	R1	20	138
16.9-26	6	R1	22	152
16.9-26	6	R2	22	152
18.4-16.1	6	R1	20	138
18.4-16.1	6	R3	20	138
18.4-26	6	R1	16	110
18.4-26	6	R2	16	110
600/65-R28	L1 147	R1W	13	90
18.4-38	8	R1	24	166
18.4-38	8	R2	24	166
18.4-38	1 Star	R1	24	166
20.8-38	8	R1	22	152
20.8-38	8	R2	22	152
18.4R42	2 Star	R1	28	193
20.8R42	2 Star	R1	24	166
24.5-32	12	R1	28	193
30.5L-32	12	R1	24	166
30.5L-32	12	R2	24	166
30.5L-32	12	R3	24	166
30.5L-32	14	R1	24	166

Refer to Axial-Flow® operator's manual for information on wheel mounting and hub bolt torque.

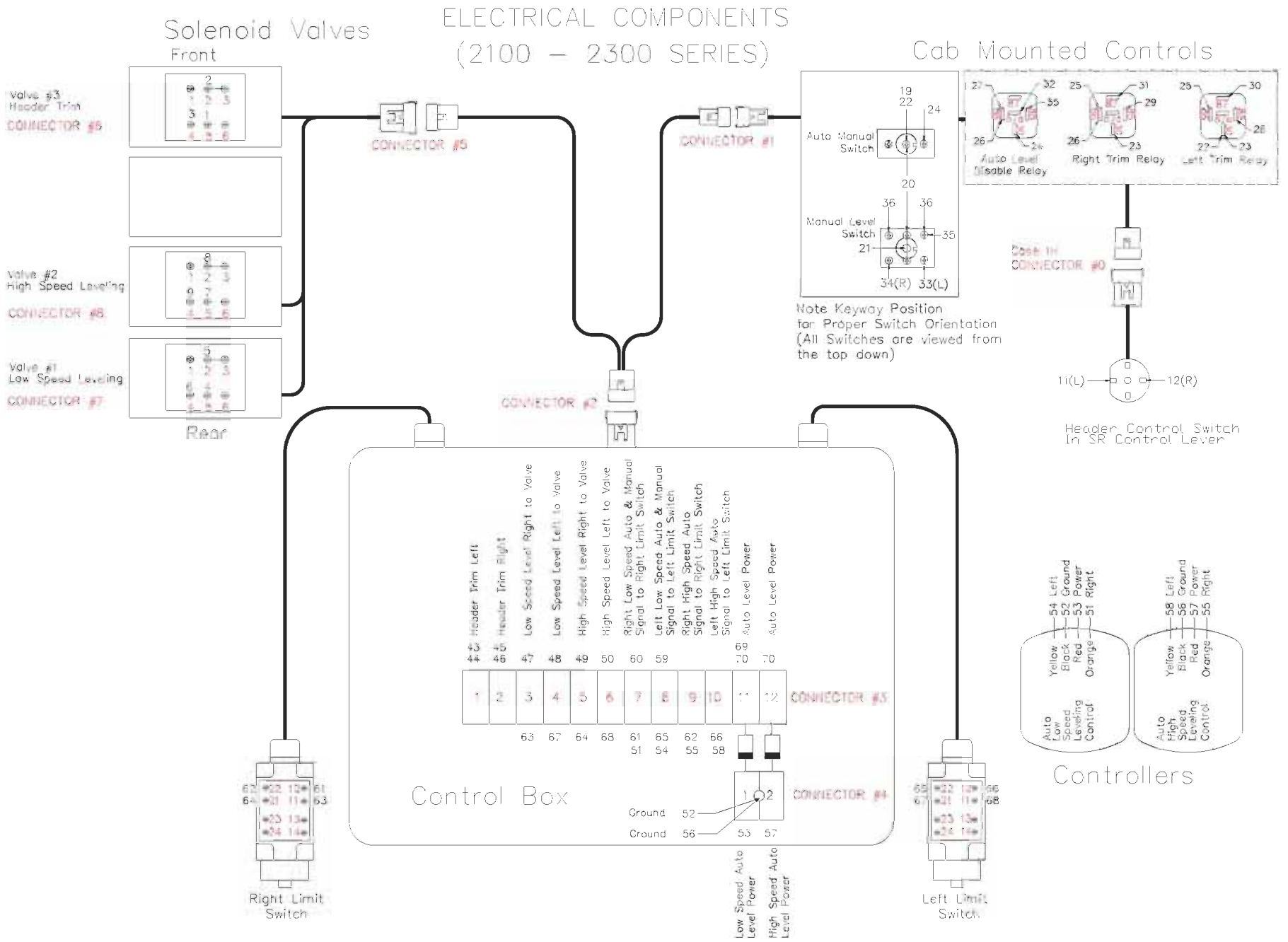
2000 Series Electrical Circuit Schematic (21-2300 Series Combines)



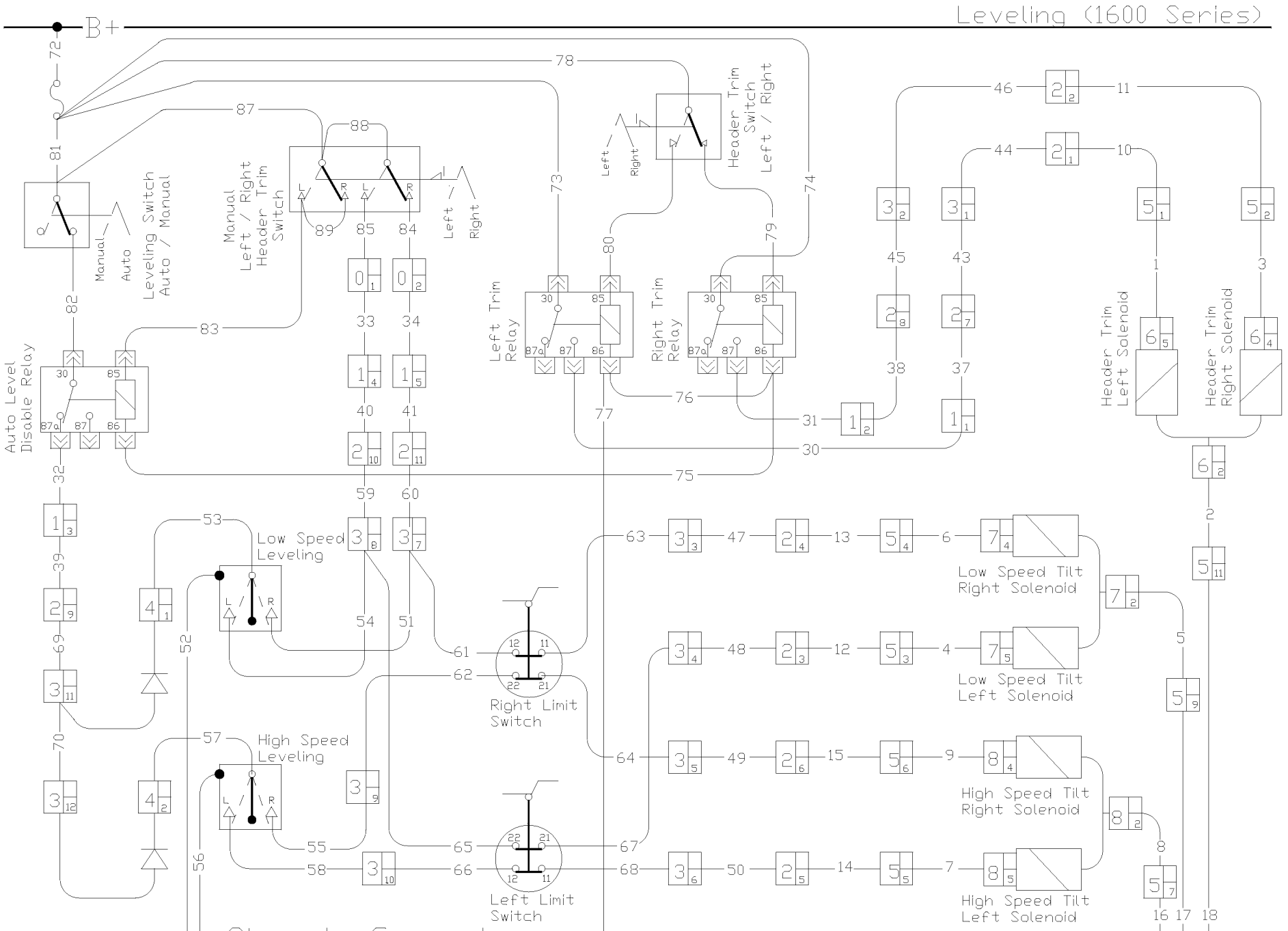
ELECTRICAL COMPONENTS (1600 SERIES)



ELECTRICAL COMPONENTS
(2100 – 2300 SERIES)



Leveling (1600 Series)



2000 Series Hydraulic Circuit Schematic