FEEDSTORM™

THE BETTER ADJUSTABLE UPPER CROSS AUGER

JOHN DEERE 6/7 SERIES OPERATORS MANUAL

PRIMARY SALES AUSTRALIA

PRIMARYSALES.COM.AU/PRODUCTS/HARVEST-PARTS/FEEDSTORM

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The instructions contained in this operator's manual are strictly for the John Deere FeedStorm.

SERIAL NUMBER: _____

DATE OF MANUFACTURE: _____

CONTENTS

1 SAFETY WARNING

The installation and operation instructions contained in this manual must be complied with at ALL times.

Failure to comply with these instructions may result in compromised machinery operation, possibly causing ineffective operation and machinery damage.

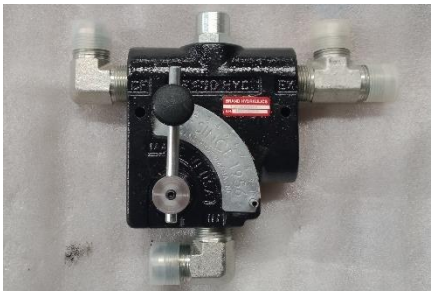
Failure to comply with these instructions may result in compromised personal safety and the safety of others, possibly causing injury or death.

Primary Sales Australia Pty. Ltd. **is not liable for any damages caused due to incorrect installation or operation.**

2 FEEDSTORM KIT CONTENTS

REF #	DESCRIPTION	QTY.	REFERENCE IMAGE (NOT TO SCALE)
MECHANICAL ASSEMBLY			
1A	Bracket Assembly Left Hand Side (LHS)	1	
1B	Brace LHS	1	
2A	Bracket Assembly Right Hand Side (RHS)	1	
2B	Brace RHS	1	

3	Hydraulic Motor Subassembly	1	
4	Auger Barrel LHS Assembly	1	
5	Auger Barrel Centre	1	
6	Auger Barrel RHS Assembly	1	
7	Universal Joint Assembly	2	
8	Adjustable Actuator Arm Assembly LHS	1	
9	Adjustable Actuator Arm Assembly RHS	1	
10	U-Bolts	8	

HYDRAULIC ASSEMBLY			
11A	Flow Controller Subassembly	1	
11B	Hydraulic Hoses (3 hoses)	1	
11C	Loose Fittings Pack (4 fittings)	1	
11D	Hydraulic Valve Mount	1	
ELECTRICAL ASSEMBLY			
12A	Actuators	4	

12B	**Electrical Harness, Long and Short**	**1**	 
12C	**Voltage Converter & Controller Subassembly**	**1**	
12D	**Remote Controller Subassembly**	**1**	
12E	**Actuator Reset Tool**	**1**	
12F	**Electrical Harness Plug Mount**	**1**	

3 INSTALLATION

3.1 MECHANICAL FITMENT

These instructions refer to the diagram attached titled *Mechanical Fitment Diagram*, use for reference upon installation.

Refer to the attached drawing UCA-JD6 as support to the detailed instructions for further information.

⚠ **Note:**

- **Installation process is minimum a two-person task.**
- **Ensure the header front is detached from the header and resting on a flat stable surface for accessibility and safety during installation.**
- **Place boards over draper belt in locations requiring access for installation, to protect the belts from damage and provide a stable surface.**

STEP	INSTRUCTION	REFERENCE IMAGE
	MOUNT BRACKETRY	
1	a) Mark locations of fixture points on the header front for Parts 1A, 1B, 2A, 2B, 8 and 9, as per attached drawing UCA-JD6.	
2	a) Align base plates of parts 1A and 1B as per their marked position (shown in drawing UCA-JD6) on the header front. b) Check that the area is clear by loosely fitting the bracket in position. The bracket will need to be fitted to the outer auger before assembly onto the machine.	

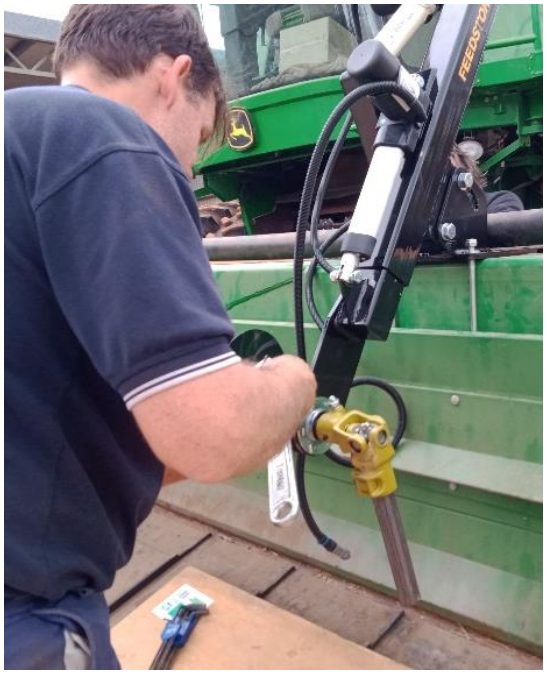
		
3	a) Align base plates of parts 2A and 2B as per their marked position (shown in drawing UCA-JD6) on the header front. b) Check that the area is clear by loosely fitting the bracket in position. The bracket will need to be fitted to the outer auger before assembly onto the machine.	
4	a) Align base plates of parts 8 and 9 as per their marked position (shown in drawing UCA-JD6) on the draper front. b) Insert and hand tighten 2 U-bolts (part 10) for each (part 8 and 9). Do not fully tighten. c) Insert the left and right hand 'Raise and Lower' actuators (part 11A) into their places on the center mounts that have just been put on in step 4(a). Only hand tighten the bolts for now. d) Insert the left and right hand 'Fore/Aft' actuators into their places on the mounts that have just been put on in step 4(a). Only hand tighten the bolts on the outer arms (upper bolts). Do not insert the bolts that attach to the inner arms (lower bolts).	

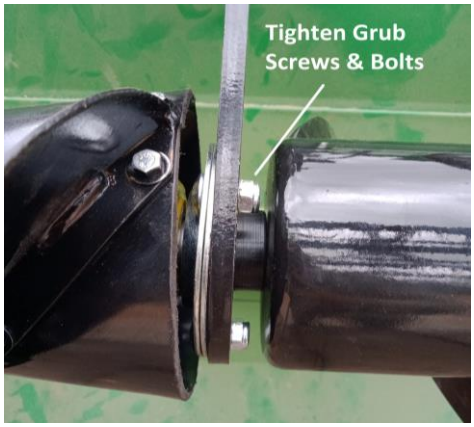
AUGER BARRELS AND MOTOR ASSEMBLY

5

a) Take out the 'Inner Arm Subassembly' from parts 8 and 9 and insert onto the side shafts of the center auger (part 5). (The bearings go onto the side shafts). Keep caution of the right- and left-hand versions. Also take care not to lose the two keys on the ends of the center auger.

b) Ensure the auger flighting is at the correct orientation, to feed inwards and downwards from the front orientation, towards the center barrel of the front when in operation. Lift the center auger and the inner arms together, and insert the newly created subassembly into place by putting back the inner arms into their initial places within the outer arms on parts 8 and 9. To hold the center auger (part 5) in place, attach the lower bolts on the 'Fore/Aft' actuators (that were left out in step 4(d)) with the inner arms. Do not fully tighten these bolts yet.

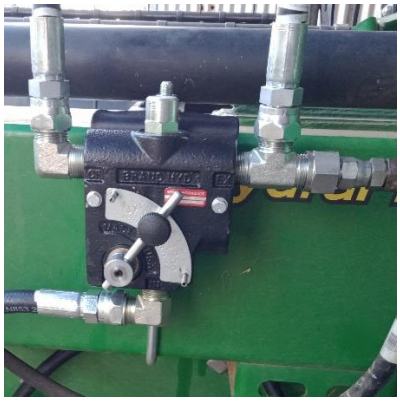
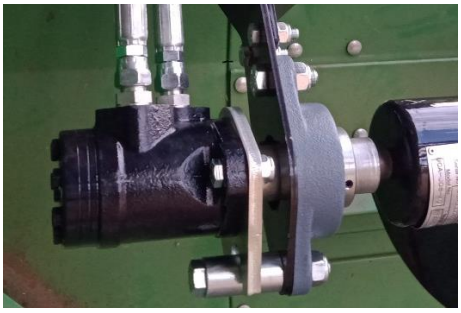
6	a) Mount each of the universal joint assemblies (part 7) on either side of the center auger. Secure by ensuring correct alignment of the keys on the sides of the center auger (part 5) with the universal joints. Tighten the bolts on the clamps. b) For longevity of the adjustable fitment, coat both the splines with an anti-seize product. c) Fasten the shafts on the ends of the center auger barrel (part 5) to the bearings of parts 8 and 9, using the locking collars and grub screws. Firmly position the locking collar against the bearing prior to tightening the grub screws.	
7	a) Tighten only the 2 grub screws securing the hydraulic motor with the coupling (part 3). Fasten the hydraulic motor subassembly (part 3) to the outer face of Part 2A. (Do not attach hoses at this stage). b) Insert the shaft on the right auger subassembly (part 6) into the hydraulic motor's coupling. Ensure that the key on the auger's end sits well into the keyway on the motor's coupling. c) Insert the plastic shroud end of the right auger subassembly (part 6) onto the spline on the universal joint on the right-hand side of the center auger (part 5). Orientate the center auger before insertion such that the grease nipple on the universal joint is accessible through the hole in the plastic shroud on the right auger.	 

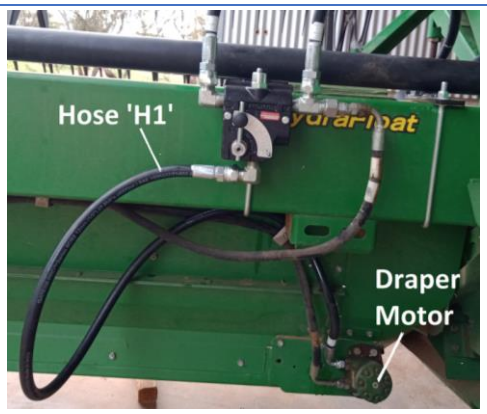
	d) Check to ensure that the flights on the center and right auger line up with one another.	
8	a) Similar to step 7(c), lift the left auger subassembly (part 4) and insert its plastic shroud end onto the spline on the universal joint on the left-hand side of the center auger (part 5). Orientate the center auger before insertion such that the grease nipple on the universal joint is accessible through the hole in the plastic shroud on the left auger. b) Insert the other end (end with the shaft) of the left auger into the bearing on the left bracket (part 1A). c) Check to ensure that the flights on the center and right auger line up with one another.	 
FASTENING		
9	a) Centralize all three auger barrels relative to the bracketry. Ensure approximately 10mm gap between the yoke clamps and bearings on parts 8 and 9. b) Fasten the grub screws on the hydraulic motor shaft coupling, (part 3), to the shaft on the right auger (part 6). c) Fasten the grub screws of the bearing on the left bracket assemblies (part 1A), to the shaft of the left hand auger barrel (parts 4). d) Fasten the bolts securing the actuators to the actuating arm assemblies (parts 8 and 9). Also fasten the M16 bolts securing the outer actuating	 

	arms with the mount brackets on parts 8 and 9. e) Ensure that the actuating arm assemblies are aligned with the marks made in step 1(a) and tighten the U-bolts. f) Ensure approximately 10mm gap between the uni-joints and bearings on parts 8 and 9, and tighten the U-bolts on parts 1A, 1B, 2A and 2B.	 

3.2 HYDRAULIC FITMENT

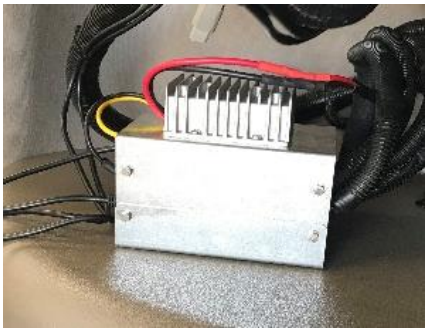
Refer to the attached drawing UCA-H03 as support to the detailed instructions for further information.

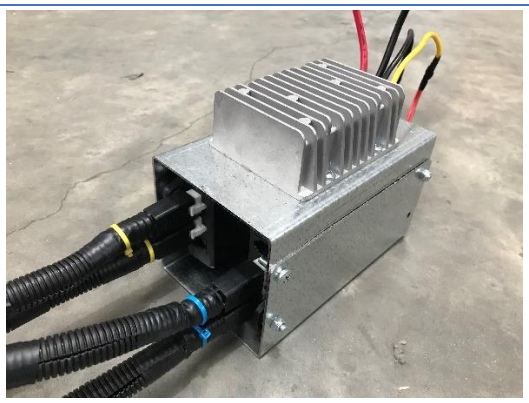
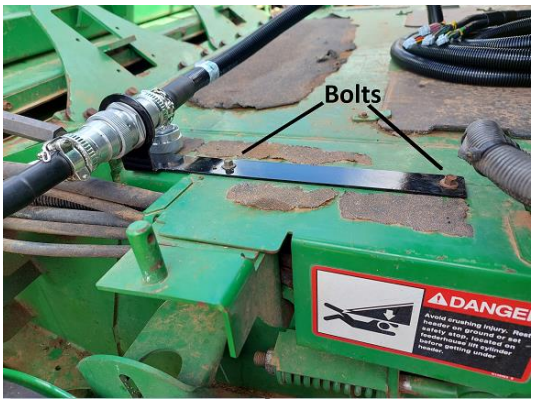
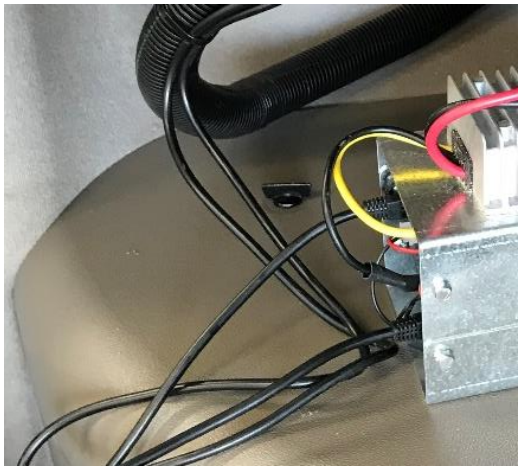
STEP	INSTRUCTION	REFERENCE IMAGE
1	a) Attach the 'flow controller' (part 11A) to the 'hydraulic valve mount' (part 11D) with the fasteners supplied loose. b) Loosen the rear nut on the U-bolt of the 'RHS Brace' (part 2B) and attach the hydraulic valve mount (part 11D). Tighten the nut back.	
2	a) Fasten the hydraulic motor fittings (part 11C) to the hydraulic motor as per the attached drawing 'UCA-H03'.	
3	a) Connect the hydraulic motor to the flow controller's excess and control flow ports (marked 'EF' and 'CF') using the two supplied 'H2' hoses (part 11B) as per the attached drawing 'UCA-H03'.	

4	a) Connect one end of the hydraulic line inlet 'H1' (part 11B) of drawing UCA-H03 to the right-hand draper motor (upper port) and the other end to the inlet (marked 'IN') of the flow controller.	
5	a) Connect the existing hose on the front coming from the return filter (hose AH227452) to the remaining end of the tee on the excess flow port of the flow controller.	
6	a) Ensure all connections are sealed and secure. Tighten any loose connections. Note: All connections requiring sealant should have come preinstalled. Only reapply sealant if the fitting has been adjusted or leaks.	

3.3 ELECTRICAL FITMENT

Refer to the attached drawing UCA-E03 as support to the detailed instructions for further information.

STEP	INSTRUCTION	REFERENCE IMAGE
1	a) Ensure that the hydraulic hoses in the middle of the front attaching to the center arm are tied up and restrained, so that they cannot clash with the auger paddles.	
2	a) Connect the shorter portion of Electrical Wiring Harness, 12B to the four Actuators, 12A. The slightly shorter (by approx. 100mm) cables plug into the "RAISE AND LOWER" Actuators. The longer cables plug into the "FORE AND AFT" Actuators. Connections are colour coded with cable ties.	
3	a) Fix the Remote Controller Subassembly, Part 11D, to a preferred location in the header cabin. Choose an accessible location for the operator whilst driving.	
4	a) Fix in a suitable location and hardwire the Voltage Converter, Part 12C, to the header power source. Ensure the power source provides 40 Amps at 12 Volts, to the converter.	

5	a) For permanent fitment, bring the electrical harness into the cab in the desired manner. Sheath the 4 Molex plugs if feeding through a narrow cavity, to protect from possible catchment and damage. Plug the longer portion of the Electrical Wiring Harness, Part 12B, into the Voltage Converter Box, Part 12C. Connections are colour coded with cable ties. b) Take the other ends to the header and front connection point.	
6	a) Unscrew the two hex flange bolts on the top of the left side of the feeder house on the header (shown in the picture on the right). Align the holes on the Harness Plug Mount (part 12F), with the two bolt points and screw the hex flange bolts back on. b) Using the provided nut and washer, fasten the barrel plug on the longer harness to the Harness Plug Mount (part 12F). Plug the shorter portion of Harness onto the plug of the longer portion of the harness.	
7	a) Plug the outlet cables of the Remote Controller (part 12D) into the Voltage Converter (part 12C) inlet ports. Connections are colour coded with cable ties.	

8	a) Fasten electrical harness to the header/front in locations clear of moving parts and potential catchment points, using cable ties, to prevent wear and damage to the harness. Roll up and fasten any excess harness length in an appropriate location. Ensure no portions of the harness are under tension or sagging in any locations.	

3.4 ADDITIONAL FITMENT NOTES

1. Once completed the temporary installation of the FeedStorm Kit, trial the actuators with caution, using the remote controller unit from the cabin. Ensure the range achievable is at the optimum intended.
2. Recommend using a thread locking adhesive product on all grub screws, to ensure they do not loosen during operation.

DO NOT attempt to harvest produce until the FeedStorm is permanently fixed to the header front.

3.5 SETTING ACTUATOR LIMITS

STEP	INSTRUCTION
1	Once completely assembled, complete the *Reset Procedure* for the actuators, using the remote controller, 11D. Ensure all actuators are completely retracted with no errors once the procedure is complete. Set the limits required in the following steps, using the *Inner and Outer Limits Procedure.* *The "FORE AND AFT" actuators operate in a linear motion, extending and retracting the auger barrel from the header front.* *The "RAISE AND LOWER" actuators operate in a pivoting motion, lifting and lowering the auger barrel relative to the header front.* *To extend the actuators, press and hold the UP Arrow button.* *To retract the actuators, press and hold the DOWN Arrow button.*
2	Set the OUTER limit of the "FORE AND AFT" actuators just before maximum extension. *To prevent an error occurring at maximum extension during operation.*
3	Set the OUTER limit of the "RAISE AND LOWER" actuators just before the end of the curved slot in the bracketry is reached. Removing the bolt from the slot will assist in visually determining this limit. *To prevent unnecessary loading on the actuator, possibly causing an error during operation.*
4	Set the Inner limit of the "FORE AND AFT" actuators just before contacting other components of the header front such as the reel arm. Ensure to provide 10mm clearance from other componentry minimum.
5	Set the inner limit of the "RAISE AND LOWER" actuators ONLY if required, due to contacting other header front componentry or identified as causing an overloading error.
6	The limits of the actuators are now set and ready to use. To save preferred positions within the limits set, follow the *Saved Positions Procedure.*

4 OPERATION

4.1 ACTUATOR PROCEDURES

4.1.1 Reset Procedure

Reset the actuators upon initial use and in the case of an error.

1. Press and hold the DOWN Arrow button on the Remote Control until the LED display flashes "RST".
2. Release the DOWN Arrow button for 1 second and press and hold the DOWN Arrow button once more until the actuators retract completely then slightly extend before coming to a stop, displaying “0.01”. This signals the end of the reset procedure. Release the DOWN Arrow button and your system is now ready to use.

4.1.2 Inner and Outer Limits Procedure

The limits of the actuators must be set prior to use, to prevent default errors caused due to maximum actuator extension, and the auger barrel clashing with other components of the header front whilst in operation.

Outer Limit:

1. Move the actuator to the required extension length.
2. Press the “M” button.
3. Press the UP Arrow button.
4. Press and hold the “M” button until “999” shows.

Inner Limit:

1. Move the actuator to the required extension length.
2. Press the “M” button.
3. Press the DOWN Arrow button.
4. Press and hold the “M” button until “000” shows.

If unable to successfully set either or both limits, complete the “Reset Inner and Outer Limits to default” procedure detailed below, then attempt to set the limits again.

Reset Inner and Outer Limits to default:

1. Press the “M” button.
2. Wait one second.
3. Press and hold the “M” button until it displays “555”.

Recommended Limits:

1. Raise & Lower: Min 1.2, Max 5.9
2. Fore & Aft: Min 0.2, Max 3.6

These settings would avoid clashing when reel is fully in and are provided as a guide only. Ensure no clashing before use.

4.1.3 Saved Positions Procedure

Saved positions are an optional feature, providing the ability to program the actuators to preferred configurations, to maximise effectiveness during harvest.

1. Move the actuators to the desired location.
2. Press the "M" button followed by a numbered button of choice.
3. The LED display will flash an "S", followed by the number selected. This indicates the position has been saved.

To use a saved position during operation, press any of the numbered buttons and the actuators will begin to move to the saved position.

4.2 PRIOR TO START UP

1. Ensure to grease all four lubrication points if required via the grease nipples, using high temperature resistant grease.
    1.1. The Bearing of Parts 1A and 2A; two grease points.
    1.2. The Universal Joints, Part 7; two grease points.
2. Familiarise the operator with the actuators, including the operation and reset procedures and the troubleshooting instructions, prior to harvesting.

4.3 AUGER BARREL RPM

1. The recommended rotational speed of the auger barrels is to be operating in sync with the draper belt speed. Note: the linear speed of both the draper belt and the auger screw should be approximately the same, adjust the flow controller to increase or decrease the auger RPM as required.
2. If the auger begins to vibrate noticeably when operating at high RPM, excess of 300 RPM, reduce the operating RPM until this effect subsides.

5 MAINTENANCE

1. The recommendation is to complete a routine check of the FeedStorm at regular intervals, after initial installation at the cautious discretion of the operator. The recommendation hereafter is to complete a routine check every day / 12 hours of operation.

   A routine check includes:

   1.1. Inspect FeedStorm bracketry. Ensure no stressed components. Ensure all components are appropriately fastened.

   1.2. Inspect all FeedStorm electrical cables and hydraulic hoses, for their condition and fastening. Ensure no abrasive wear is occurring and the lines are fastened at regular intervals.

2. Grease all four lubrication points as required via the grease nipples, using high temperature resistant grease.

   2.1. The Bearing of Parts 1A and 2A; two grease points.

   2.2. The Universal Joints, Part 7; two grease points.

3. Grease the Universal Joints', Part 7, splines annually.

6 STORAGE

1. When the header front is not in use, fully retract the actuators so minimal shaft length is exposed to the surrounding environment. This will assist optimum function and longevity of the actuators.

2. Storage of the header front in a protected location from the elements is recommended for the preservation of the FeedStorm.

3. If the header front cannot be stored as recommended and is exposed to wet weather for a duration of time outside of harvest season, such as in a dealership's yard throughout winter, remove the electrical components from the front. If the actuators are to be left on the front, ensure they are fully sealed at electrical joins and are further protected with waterproof coverings.

4. **DO NOT** clean the electrical components with a liquid composition. The electrical components are water resistant, not waterproof. Recommend using compressed air as an alternative to clean the electrical components.

7 TROUBLESHOOTING

7.1 Remote Control Error Code

Actuators do not work, after completing the Reset Procedure, an error code appears on the remote-control LED display.

7.1.1 Error Codes E01 to E04: Actuator Overload Error

1. Ensure no excessive weight is on the FeedStorm actuators, friction on the actuator brackets, or force required by the actuators to overcome an unforeseen obstacle or a mechanical clash point.
2. Repeat the *Reset Procedure*.

7.1.2 Error Codes E07 to E10: Actuator Sensor Error

1. Disconnect and reconnect all cables.
2. Check for inadequate connections and power supply.
3. Repeat the *Reset Procedure*.
4. If actuator/s do not retract, manually retract using the Actuator Reset Tool, 11E. Plug into the connection of the problematic actuator and connect the wires directly to a 12-volt power supply to fully retract. The alternative direction of power will extend the actuators.
5. Repeat the *Reset Procedure*.

7.1.3 Error Code H01: System Overheat Protection

1. Ensure no excessive weight is on the FeedStorm actuators or friction on the actuator brackets. Mitigate unnecessary continuous adjustment of the actuators.
2. Allow the electrical system 16 minutes to cool down before continuing to use.

7.2 Actuators Do Not Extend/Retract

When attempting to engage the actuators using the remote, the columns do not adjust.

1. Ensure all connections are supplying power to the actuators.
2. Ensure enough current is supplied to the actuators from the power source. A maximum of 25 amps at 12 volts is required to operate the FeedStorm actuators simultaneously (when retracting and raising).
3. Increase the amperage of the power source as required.

7.3 Actuator Pair Out of Sync and Not Completely Retracting

An error code does not appear, but the actuators are as stated.

1. Reset the actuators manually using the Actuator Reset Tool, 11E.
2. Plug into the connection of the problematic actuator and connect directly to a 12-volt power supply to fully retract. The alternative direction of power will extend the actuators.
3. Repeat the *Reset Procedure*.

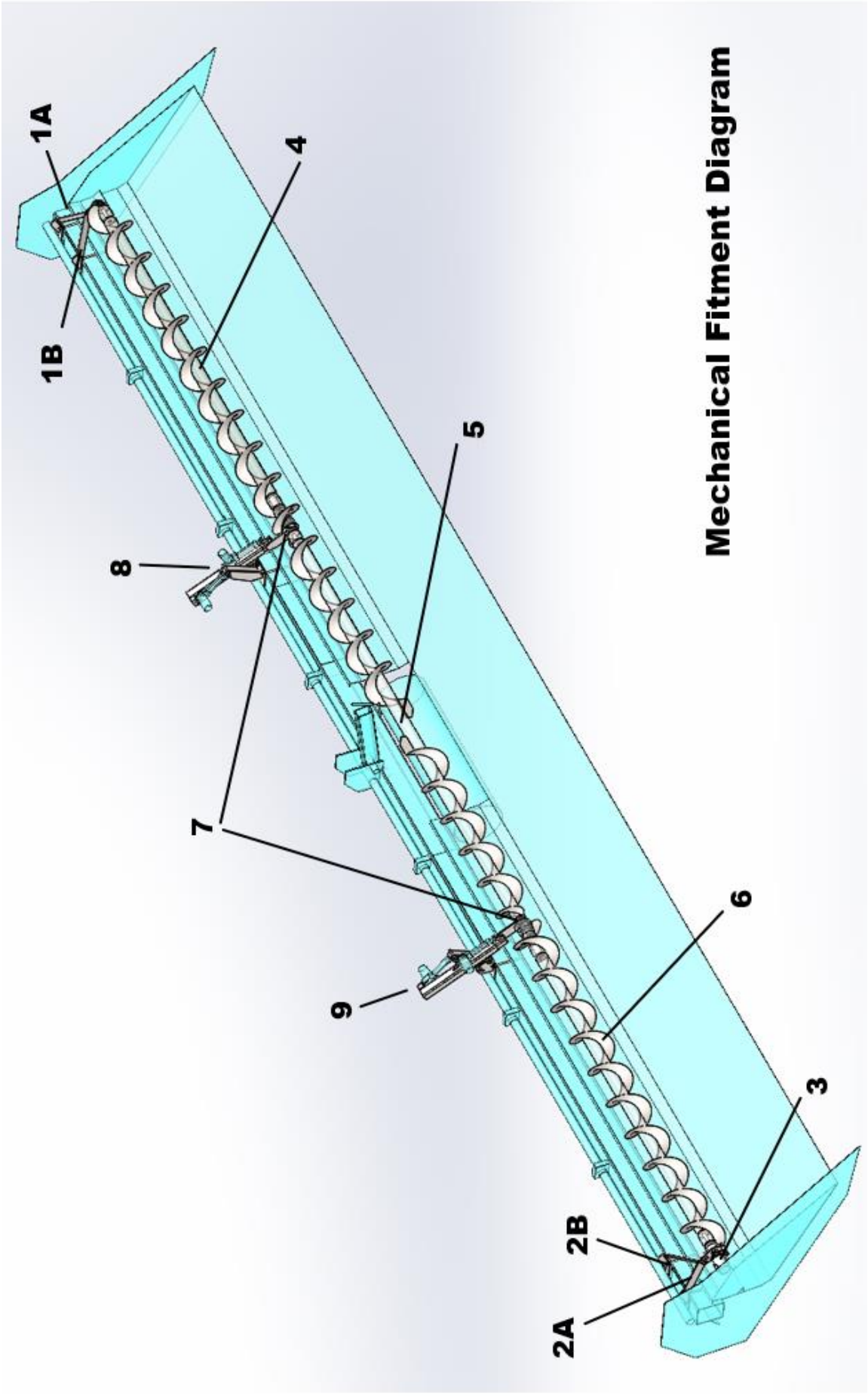
8 REFERENCE DOCUMENTS

Diagrams Attached:

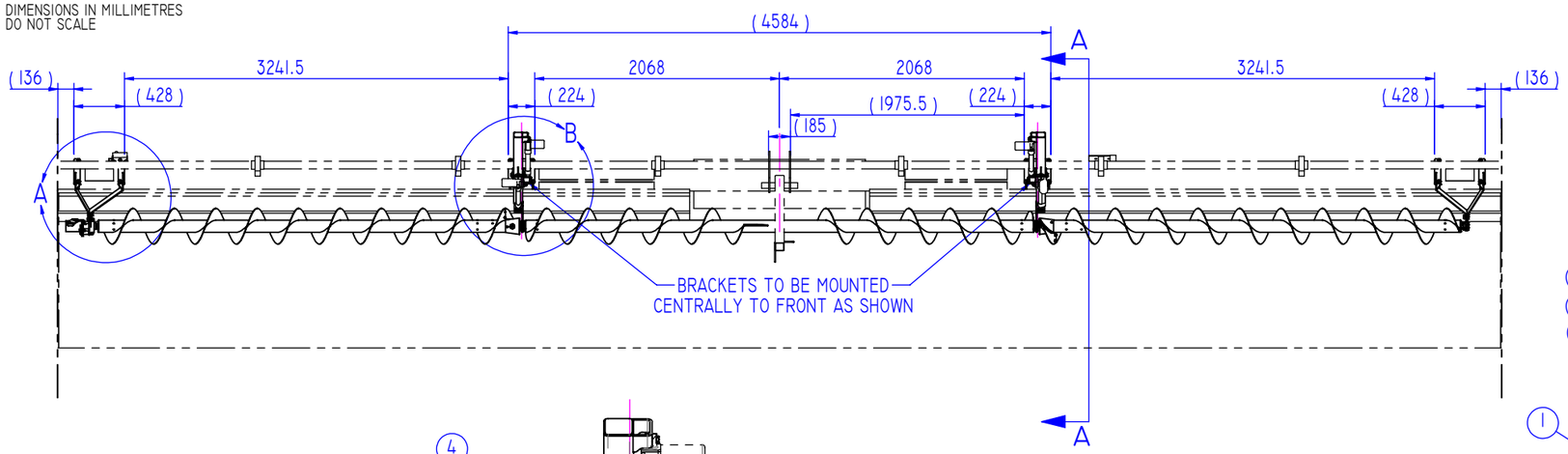
1. **Mechanical Fitment Diagram**

Drawings Attached:

1. **FeedStorm John Deere Assembly & Fitment Drawing: UCA-JD6**
2. **FeedStorm John Deere Hydraulics Diagram Drawing: UCA-H03**
3. **FeedStorm John Deere Electrical Wiring Diagram Drawing: UCA-E03**

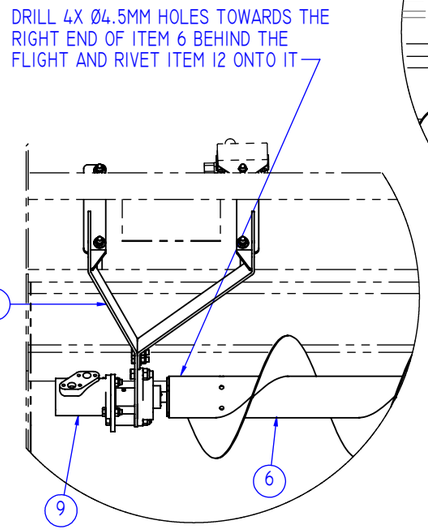

Mechanical Fitment Diagram
1A
1B
4
5
8
7
6
9
3
2B
2A

DIMENSIONS IN MILLIMETRES
DO NOT SCALE

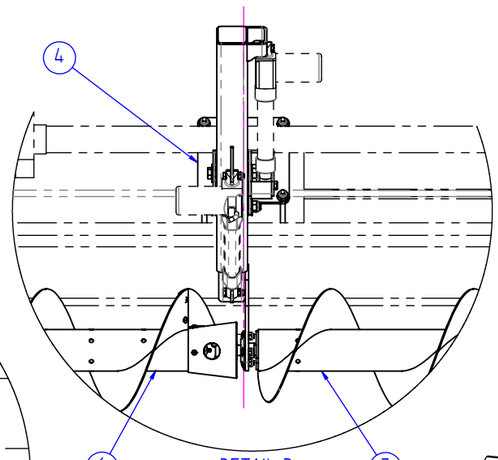


ITEM NO.	QTY.	PART NO. (40FT)	DESCRIPTION / MATERIAL
1	1	UCA-JD6-MPL	MOUNTING PARTS, LH
2	1	UCA-JD6-MPR	MOUNTING PARTS, RH
3	1	UCA-JD6-AAAL	ASSEMBLY, ADJUSTING ARM, LEFT
4	1	UCA-JD6-AAAR	ASSEMBLY, ADJUSTING ARM, RIGHT
5	1	UCA-ABJL-ASM	AUGER BARREL LH SIDE ASSEMBLY
6	1	UCA-ABJR-ASM	AUGER BARREL RH SIDE ASSEMBLY
7	1	UCA-ABCJ	AUGER BARREL, CENTER
8	2	UCA-UJA	UNIVERSAL JOINT ASSEMBLY
9	1	UCA-HMCA	HYDRAULIC MOTOR & COUPLING ASSEMBLY
(NOT SHOWN) 10	1	UCA-E03	ELECTRICAL COMPONENTS, JD
(NOT SHOWN) 11	1	UCA-H03	HYDRAULIC COMPONENTS, JD
(NOT SHOWN) 12	1	UCA-SERIAL	SERIAL PLATE

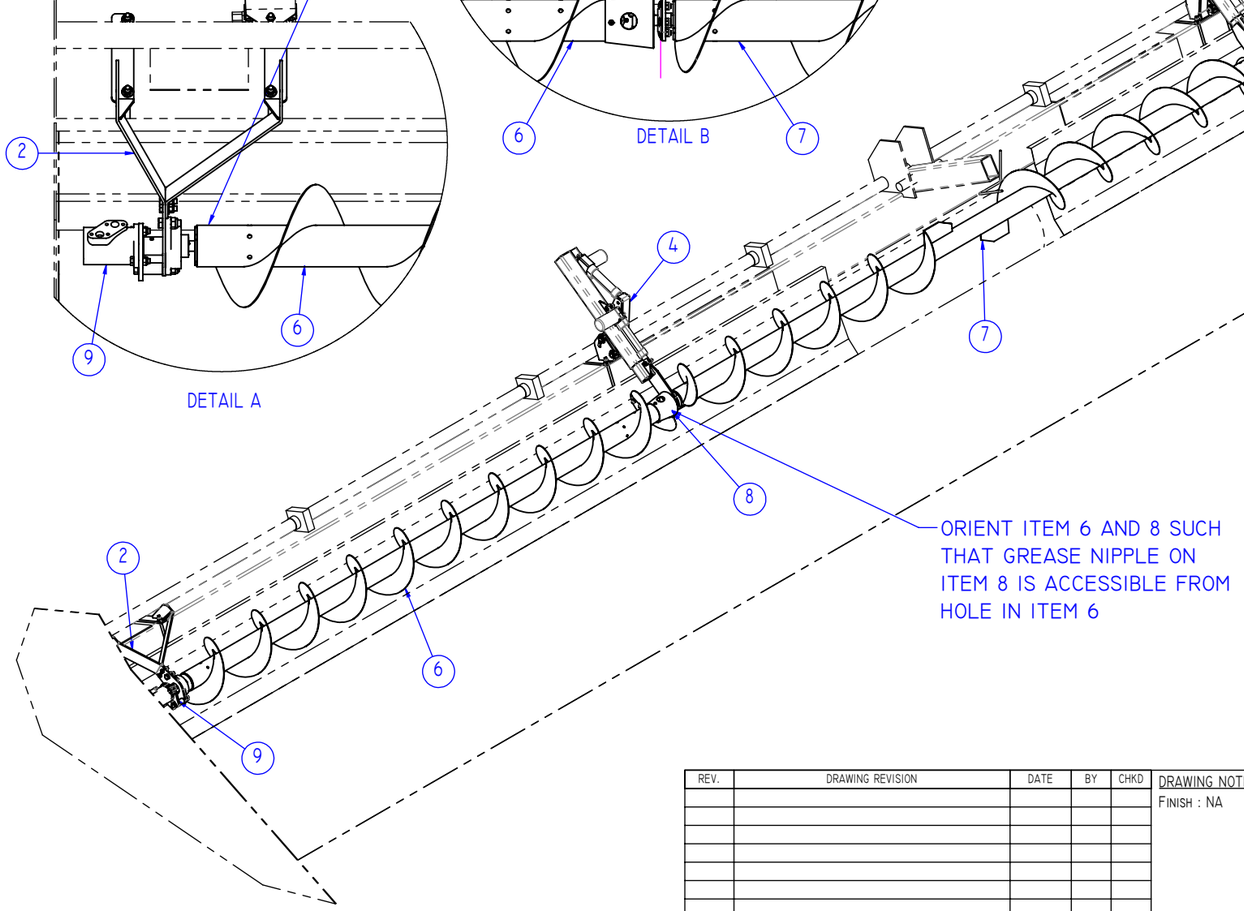
KIT PART NUMBERS:
40FT - UCA-JD6-40

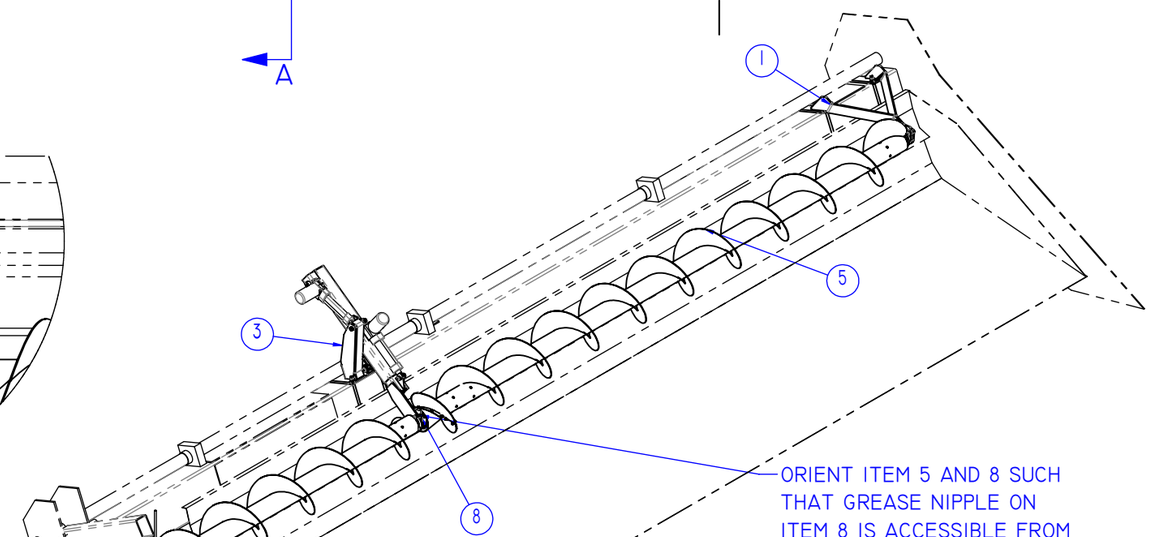


DETAIL A

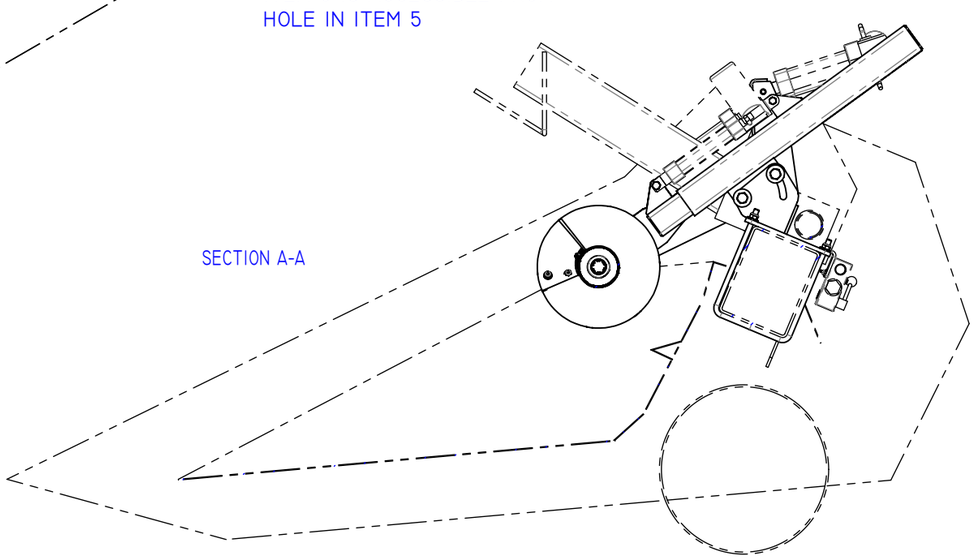


DETAIL B





SECTION A-A



REV.	DRAWING REVISION	DATE	BY	CHKD

DRAWING NOTES:
FINISH : NA

TOLERANCES IF NOT SPECIFIED (COARSE SERIES)

LINEAR: NOMINAL DIMENSION						
OVER		30	120	400	1000	6000
TO	30	120	400	1000	6000	
TOL.	±0.5	±0.8	±1.2	±2.0	±3.0	±5.0

ANGULAR:
FORMED: ±1° OTHER: ±0.5°

A3

TITLE: UPPER CROSS AUGER JD 6/7 SERIES ASSEMBLY

DRN BY	DRN DATE	PART NO	WEIGHT(KG)
IUR	14/06/2022	-	239.43
CHKD BY	CHKD DATE	DRAWING NO	REVISION
SBJ	14/06/2022	UCA-JD6	-

C:\USERS\IREHMAN\ONEDRIVE - PRIMARY SALES AUSTRALIA PTY LTD\SOLIDWORKS\JOHN DEREE FEEDSTORM\FRONTS\UCA-JD6, TUESDAY, 6 SEPTEMBER 2022

Item No.	Part No.	Ref Number	Description	Qty
1	HYD-MP50-COD	MP50 COD	Hydramotor, 50cc, M+S PN: MP50 COD	1
2	HYD-FCV-FC51-34	FC51-3/4-50	Hydraulic Flow Control Valve - Brand FC51-3/4	1
3	UCA-H03-KIT	S8N-1217	Elbow, 3/4" NPTM - 1,1/16" JICM	2
4		S110-1213	Straight, 3/4" JICF - 13/16" ORFSM	1
5		S66F-1217	Reducer, 1,1/16" JICF - 3/4 JICM	1
6		S21N-121717	Tee, 3/4" NPTM x 1,1/16" JICM x 1,1/16" JICM	1
7		S74-0814	Nipple, 1/2" BSPOM - 7/8" JICM	2
8		H1	Hose Asm - T28A (1.8m) - T282-0813 (ORFSF) x T204-0817 (JICF)	1
9		H2	Hose Asm - T28A (1.2m) - T204-0817 (JICF) x T204-0814 (JICF)	2
10	UCA-HVM-JD6	-	Hydraulic Valve Mount JD, with Fasteners	1

**Reference Only

To RH Draper Motor
Upper Port

(1.2m) T28A
(1) T204-0817
(1) T204-0814
H2

(1.2m) T28A
(1) T204-0817
(1) T204-0814
H2

(Closest to flange)
A
S74-0814
M+S: MP 50 COD
B
S74-0814

FLOW CONTROLLER:
FC51-3/4-50 (BRAND)

S8N-1217
CF
EF
S21N-121717
S110-1213
S66F-1217
IN
S8N-1217

(1.8m) T28A
(1) T282-0813
(1) T204-0817
H1

MOUNTED TO PART:
UCA-HVM-JD6

Existing Return Hose
(AH227452)

To return filter existing

KIT PART NUMBERS:
40ft - UCA-H03-40

REV No.	DRAWING REVISION DESCRIPTION	DATE	BY	CHKD
A	ITEMS 4 & 5 CHNGD DUE TO AVAILABILITY	23/8/22	IUR	SBJ
B	RETURN HOSE ORIENTATION CORRECTED	20/9/22	IUR	SBJ

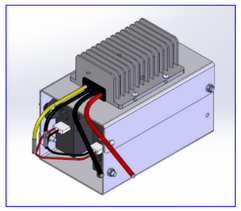
DRAWING NOTES:

All PNs Ryco except where specified

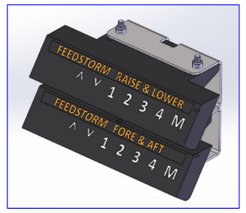
All BSPT fittings to be sealed using 'LOCTITE 567' or equivalent

A3 SCALENTS			UPPER CROSS AUGER HYDRAULICS, JD 6/7 SERIES	
DRAWN BY	IUR	22/7/22	DRAWING NUMBER	REV No.
CHKD BY	SBJ	22/7/22	UCA-H03	B

LINE TYPE	WIRE SIZE (MM)	WIRE COLOUR
COMMON	3	GN
		BE
		GN/WE
		BE/WE
SENSOR	3	WE/BN
		YW/BE
		BN/WE
		YW
		RD/WE
		RD/BE
		BK/WE
		BK/YW
POWER	4	GY
		OE
		BK
		RD
		WE
		PK
		BN
		VT



UCA-ECA



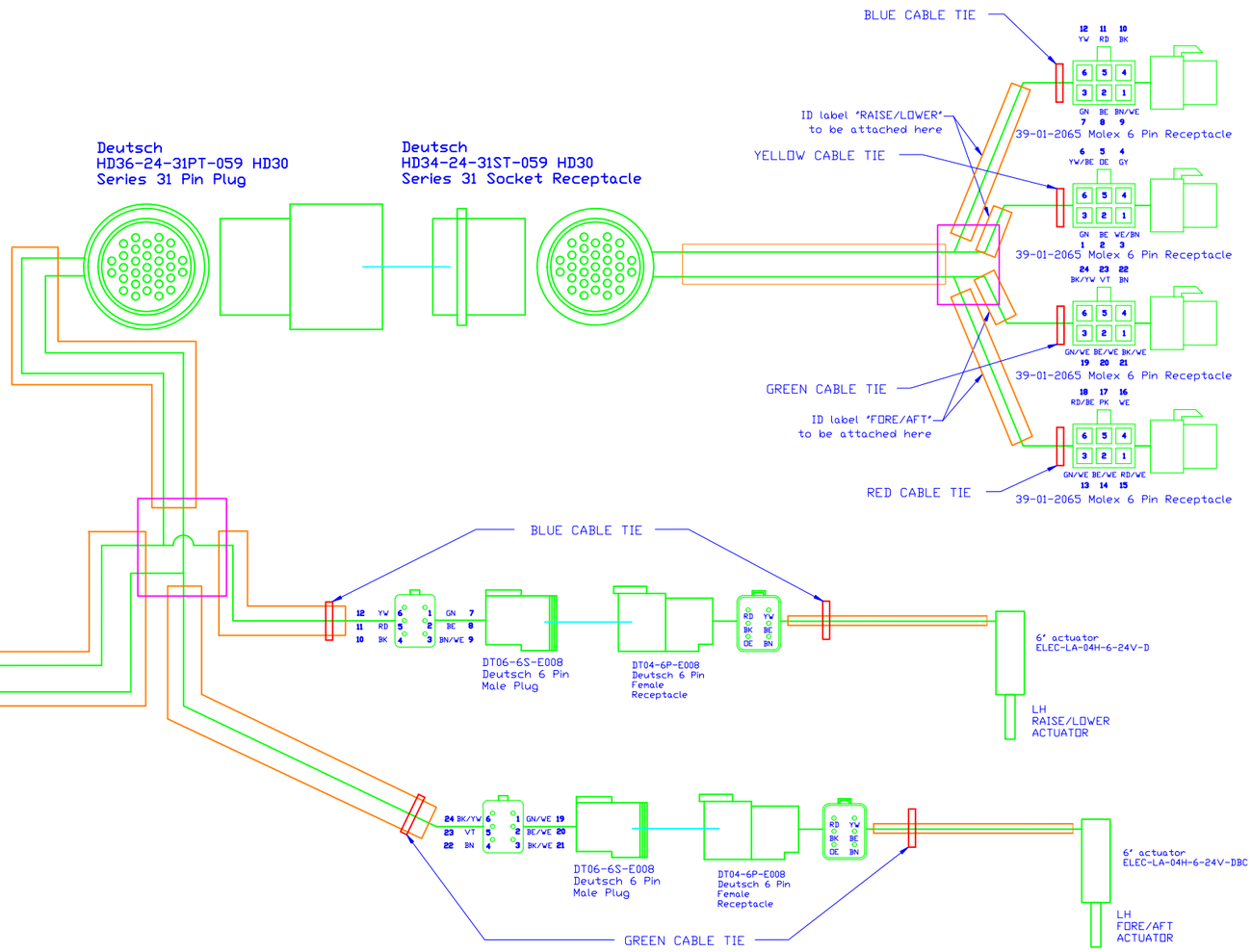
UCA-ERA

ASSEMBLY STEPS:

1. COMPLETE ELECTRICAL TEST PROCEDURE OF ALL PARTS CONNECTED.
2. COLOUR CODE ELECTRICAL CONNECTIONS WITH COLOURED CABLE TIES AT THE ACTUATOR, CONTROLLER AND REMOTE CONNECTIONS.

TO ASSIST WITH CORRECT INSTALLATION.
COLOURS STATED ARE A GUIDE ONLY.

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	UCA-E03-HN2	ELECTRICAL WIRING HARNESS	1
2	ELEC-LA-04H-6-24V-D	6" ACTUATOR WITH DEUTSCH PLUG	2
3	ELEC-LA-04H-6-24V-DB	6" ACTUATOR, DEUTSCH PLUG, BRAKE CHANGED	1
4	ELEC-LA-04H-6-24V-DBC	6" ACTUATOR, DEUTSCH PLUG, BRAKE CHANGED & CLEVIS ROTATED	1
5	UCA-ECA	ELECTRICAL CONTROLLER ASSEMBLY	1
6	UCA-ERA	ELECTRICAL REMOTE ASSEMBLY	1
7	CABLE-TIE-5COL	CABLE TIE - 5 COLOURS 100MM	20
8	ELEC-HDC36-24	DUST CAP	1
9	ELEC-HDC34-24	DUST CAP WITH CHAIN	1
10	ELEC-HD30-112263-90	NUT	1
11	ELEC-HD30-112264	WASHER	1
12	UCA-JD6-EPM	ELECTRICAL PLUG MOUNT	1
13	UCA-ART	ACTUATOR RESET TOOL	1



REV No.	DRAWING REVISION DESCRIPTION	DATE	BY	CHKD

DRAWING NOTES:

Pin-Wire connections shown Pin In
Ie. Viewed from back (Outside) of connector.

A3 SCALE NTS			UPPER CROSS AUGER, JD 6/7 SERIES ELEC WIRING	
DRAWN BY	IUR	14/9/22	DRAWING NUMBER	REV No.
CHKD BY	SBJ	14/9/22	UCA-E03	-