KRAMBLE INDUSTRIES INC.

Remote Control Swing Belt Mover

Revision 4

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Specifications

39200 - Transmitter:

Power:	9 Volt DC Battery
Frequency:	916 MHz
Modulation:	FM
Indicators:	Power/Transmit Red LED
Case Size:	2.5” x 4.2” x .8”
Weight:	.25lb
Range:	300’ + (depending on environment)
Antenna:	1.3” Fixed Mini Tuned
Security Code:	Preprogrammed unique identifier
Functions:	2 to 9 Button (depending on model)

31001 - Receiver:

Power in:	12 VDC
Power out:	12 VDC @ 100 amps max
Standby:	40mA
Power Input:	6ga. 2-conductor wire with “powerpole” connectors
Hoist Inputs:	Plug-and-Lock Connector
Indicators:	Power on red LED
	Receive RF/Learn mode data yellow LED
	Channel active green LED
Antenna:	3” Flexible Tuned

39550 - Electric Motor Drive

Electrical	12vdc @ 100A Full Load
Torque	1125 in-lb
Speed	60rpm no load
Output Shaft	¾” keyed and drilled
Duty Cycle	5%
Overall Size	4” x 6” x 15”
Weight	16lb

Think Safety!

Do no install or operate where damage to persons or property may occur

FCC

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Industry Canada

This device complies with Industry Canada license exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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20-3924 Brodsky Ave
Saskatoon, SK S7P 0C9
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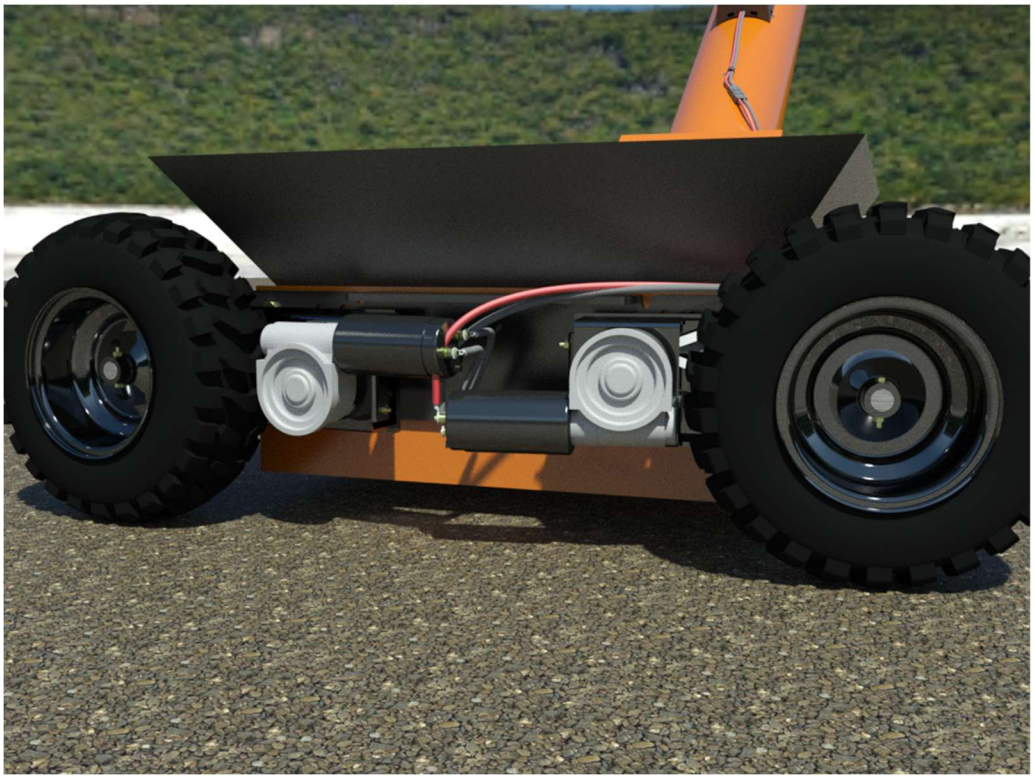
www.kramble.net

Installation Instructions

Mechanical Installation

Figure 1 Mechanical Assembly



The Swing Belt Mover is designed to bolt directly onto the swing belt mounting plate provided by the conveyor manufacturer. Begin by removing the set collar cross bolt, grease nipple and mounting nuts and washers from the drive assembly. Install the drive onto the mover mounting plate and reinstall the mounting bolts followed by the set collar cross bolt and grease nipple. Repeat these steps for the opposite drive.

Figure 2 Wheel Assembly - BATCO

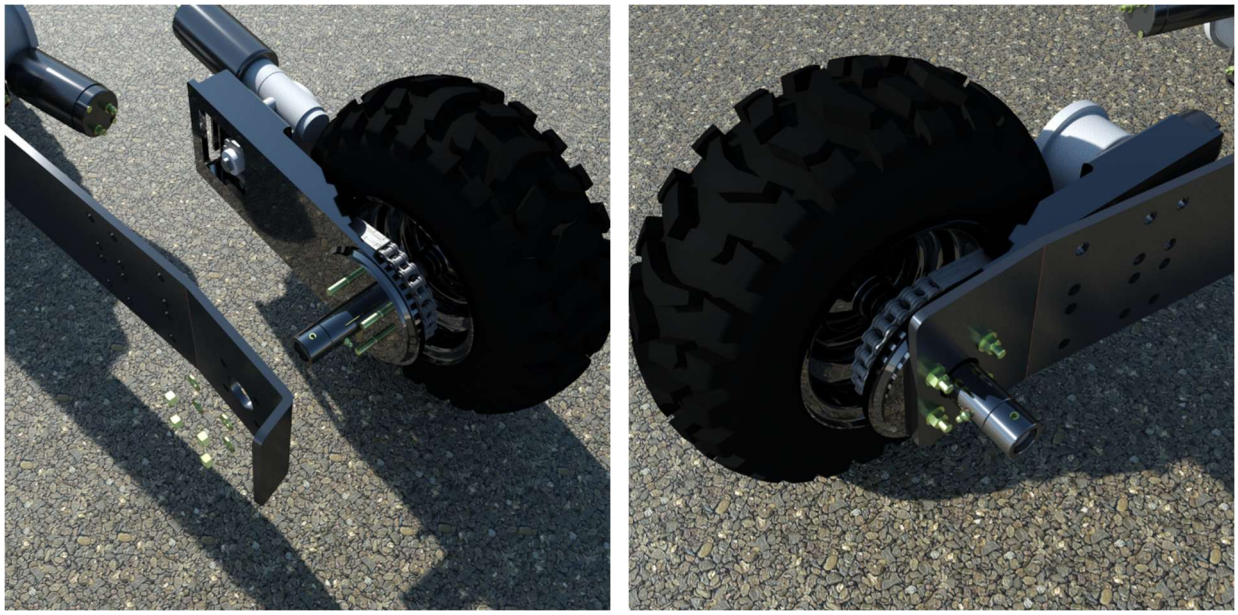
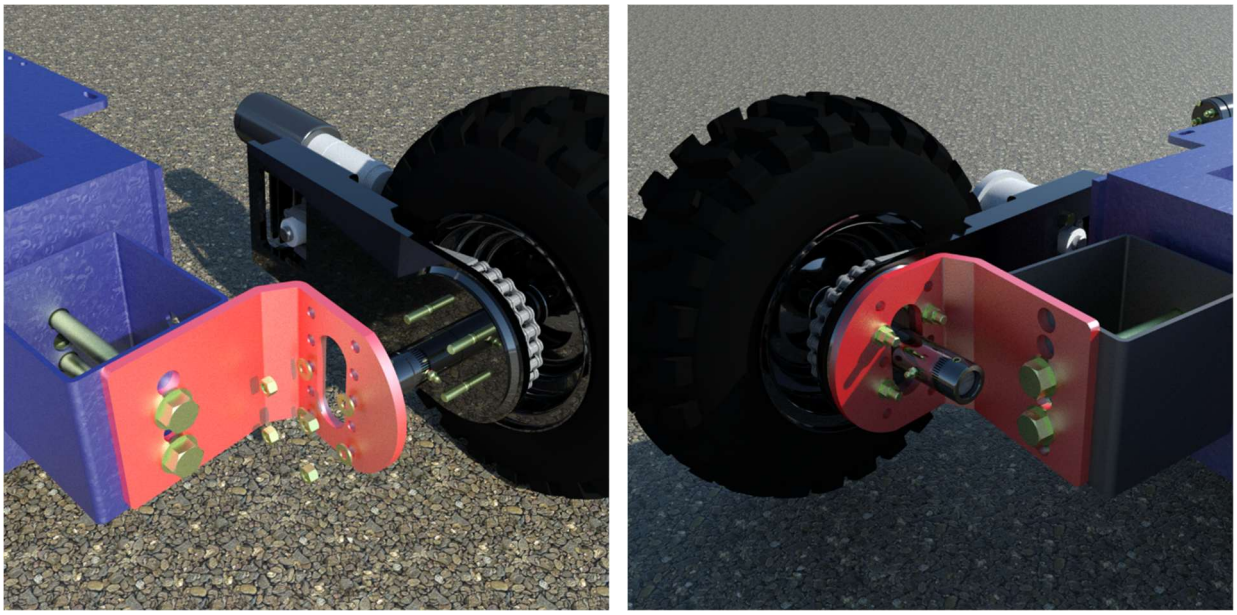


Figure 3 Wheel Assembly - BRANDT



Think Safety!

Do no install or operate where damage to persons or property may occur

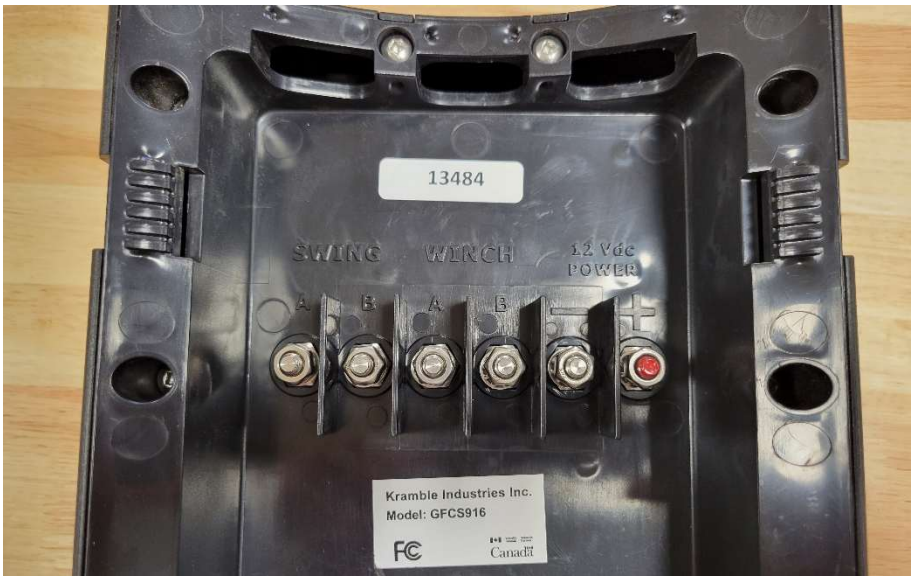
Electrical Installation

The Swing Belt Mover is provided with pre-cut wire lengths with color-coded connectors attached. Refer to drawing 24-SBM-901 at the back of this manual

The polarity must be correct as follows: +12v on the RED STRIPE wire on the POWER CABLES FROM THE TRACTOR TO THE CONTROL CONSOLE. The RED /BLACK connector shells MUST MATCH.

WARNING: DO NOT ATTEMPT TO POWER THE CONSOLE OR DRIVE FROM A BATTERY CHARGER ALONE AS DAMAGE MAY OCCUR. CONNECT TO A PROPERLY MAINTAINED BATTERY SYSTEM ONLY.

Figure 5 Console Cable Hook-up



Connect the 18’ Console/Swing cable, 14’ Console/Winch cable and the 9’ Console/Power cable to the terminal block on the underside of the Swing Belt Mover Console using the lock washers and ¼”-20 nuts supplied. Attach the Swing Belt Mover Console at a convenient height on the swing Belt tube using the gear type clamps provided through the console holes.

Install the 15’ Tractor Power cable onto the 12V tractor battery terminals, using the pre-crimped 3/8” ring terminals and the 80A self-resetting fuse assembly included. The fuse assembly must be installed between the positive battery terminal and the Red conductor of the 15’ Tractor Power cable to protect against the possibility of a short circuit. Be sure to install the fuse assembly observing the correct polarity as indicated by the engraved “BATT” label on the aluminum fuse bar.

Install the Transport Winch and connect the 14’ Console/Winch cable onto to the winch motor terminals, using the pre-crimped ¼” ring terminals.

Connect the 18’ Console/Swing cable to the Swing Belt Mover wheel assembly motor cable.

The polarity for the Swing A/B and the Winch A/B terminals will reverse during normal operation. If the Wheel Drive is running in the wrong direction when operated, exchange the Swing A and B wires. Similarly, if the Winch is running in the wrong direction when operated, exchange the Winch A and B wires.

Connect the 9’ Console/Power cable to the 15’ Tractor Power cable.

Secure cables to the swing Belt tube using the supplied gear type clamps as shown.

<u>WARNING:</u> DO NOT CONNECT THE TRACTOR POWER CABLES TO THE CONTROL CONSOLE OUTPUT TERMINALS AS AN ELECTRICAL SHORT AND SERIOUS DAMAGE OR INJURY COULD RESULT!

Kramble Industries Inc. is not responsible or liable for indirect, special, or consequential damages arising out of or in connection with the use or performance of the product or other damage with respect to any economic loss, loss of property, loss of revenue or profit, or costs of removal, installation, or reinstallation.

Figure 6 Console Diagram

LED Visible Alarm (optional)

Audible 95dB Alarm (optional)

Master Power PUSH to operate

Gear Type Clamp location

FBA Power PUSH to operate

Indicator LEDs Power (red) – Power On/System Ready

Indicator LEDs

Receive/Learn (yellow) – Data receiving from transmitter/system in learn mode

FBA POWER (Red) – Power On / FBA Ready

LOW BATTERY (Green) – Sensor battery needs replacing

Indicator LEDs Output (Green) – Power to motor / fault states indicator (slow blink for low battery and fast blink for high temperature

FBA Cancel/PUSH to silence alarm

Learn Control – Hold during powerup to match to a transmitter

Transport Winch Direction Control Momentary – Hold to operate

Swing Motor Direction Control
Momentary – Hold to Operate
Auxiliary Output – Press both buttons simultaneously to toggle +12V Auxiliary output

Gear Type Clamp location

Auxiliary +12V output (optional)

Entry access for Power and Drive

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General Operation

Control Console

The Control Console contains the radio Receiver and power control circuits. The Control Console is equipped with a Master Power On/Off switch on the outside of the case. When the switch is ON, the Red LED should be lit indicating normal operation. Press and release to turn On and Off.

Each of the Swing Belt Drive and Winch may be operated independently from the Control Console by pressing the desired momentary switch. The Green “Output” LED will come on and the selected device will operate.

The Control Console also has built-in fault status indicators. For ease of troubleshooting, if a “low voltage” status occurs to the Control Console, the green Fault States Indicator will blink approximately twice per second. Check all connections to ensure they are clean and tight. Make sure that the tractor battery is fully charged, and the engine is running. If a “control circuit high temperature” status occurs the green Fault States Indicator will flash rapidly, blinking approximately four times per second. Allow the unit to cool before resuming operation.

Each Swing Belt Mover has its own RF receiver located in the control console, which is channel selectable to operate in multi-component environments e.g. remote control trailer chutes on Channels 1 & 2, and the Swing Belt Mover on Channel 3. The user can select the desired channel using the 2-position dip-switch. All Swing Belt Movers are set to Channel 1 at the factory.

Auxiliary Output (Option):

The Control Console Auxiliary Output provides a remote control power output capable of delivering 10A (120 watts). This feature is intended for the operation of a remote control light for illuminating the work area when approaching at night, or for operation of a camera or other device. The output can be activated and deactivated from the transmitter by pressing the centre button on the RF transmitter (marked AUX), or from the Control Console by pressing the two “Aux” control buttons on the face of the Control Console simultaneously. The auxiliary output is protected by a thermal fuse that automatically resets when cooled. The auxiliary output is automatically shut off when the fuse trips to prevent a repeating cycle of the fuse tripping and resetting and must be reactivated using the transmitter or Console controls.

The Auxiliary output option includes a 5-foot length of cable to connect the Control Console to the 12V device. The polarity is as follows: +12V on the WHITE wire, and GROUND on the BLACK wire.

The auxiliary output connector is factory installed at the bottom center of the console case.

Transmitter/Receiver Matching

The Receiver is matched to a Transmitter by “learning” the transmitter’s unique security code so that the receiver will accept commands from that transmitter. A factory default system already has its transmitter matched to the receiver.

To match a transmitter to a receiver, first turn the receiver power switch OFF. Hold the button marked LEARN on the receiver and press the receiver power ON, then release the two buttons. The Receive/LEARN light is then lit to indicate that the receiver is waiting for a signal from the transmitter to be learned. Press any button on the transmitter to send a signal and the receiver will read the transmitter’s security code and store it in memory. The Receive/LEARN light will flash three times to indicate that the transmitter has been successfully learned, and the Receive/LEARN light will turn off and receiver will then enter normal operating mode. Up to eight transmitters can be learned by a receiver. If eight unique transmitters have already been learned by a receiver and it is instructed to learn another transmitter, the oldest-learned transmitter’s security code will be overwritten and forgotten. The Full Bin Alarm buzzer and light are disabled for ten seconds after learning a sensor probe’s security code in order to prevent unwanted activation of the alarm.

To erase all stored security codes, turn the receiver power ON while holding the LEARN button, and continue holding the button until the Receive/LEARN light begins to rapidly flash. Release the button, and the light will flash more slowly for three seconds, then turn off to indicate that the erase operation has succeeded. If the LEARN button is pressed while the Receive/LEARN light is slowly flashing, the erase operation is aborted and the receiver retains the stored transmitter security codes.

The Receiver is equipped with a two-position switch to enable or disable the learn and erase functions. To enable or disable a function, open the case and locate the switch as illustrated below. The switches and their positions are labeled on the circuit board. Factory default systems are set by default so that the Learn function is Enabled and the Erase function is Disabled.

Channel Select Settings

The Swing Belt Mover comes with a 2-position DIP Switch to match the Drive to the desired transmitter channel. In multi-component environments, be sure that each drive is set to a different channel so that devices do not operate simultaneously. Select the switch settings as follows:

	Switch 1	Switch 2
Channel 1	OFF	OFF
Channel 2	ON	OFF
Channel 3	OFF	ON
Channel 4	ON	ON

The Swing Belt Mover and Winch can be operated using the Transmitter, or alternatively, by operating the UP/DOWN momentary switches on the Control Console. Whenever the Swing Belt Mover drive or Winch is operated by remote control the Yellow “Receive Data” LED will be lit along with the Green LED indicating power output to the drive.

The Swing Belt Mover has two automatically resetting fuses. Fuse F1 (1 Amp) inside the control console is intended to protect the RF receiver and data circuitry, and Fuse F2 (80 Amp) at the battery is intended to protect against a short circuit in the cables. These fuses will automatically reset when cooled.

The Control Console power switch should be turned Off when not in use to prevent undesired operation.

Transmitter

The Transmitter is powered by a 9V battery which, when installed, should light the red "power" light when a switch is pressed. If the battery does not exceed 7 volts the Power light will not come On, indicating battery replacement is required.

The Transmitter is also equipped with an OFF/Standby switch to prevent accidental operation. In the OFF position the transmitter Red LED will not light and the transmitter will not activate even when a function button is pressed. To operate, slide the switch to STANDBY. The transmitter remains off until a function button is pressed, at which time the Red LED will light and the transmitter will emit signal. No battery power is used when simply in Standby mode with no function buttons pressed.

Each transmitter contains a unique identifying security code that is transmitted to the receiver during RF operation. Up to eight Transmitters can "talk" to the same Receiver as long as the receiver has learned the transmitters’ security codes. See page 9 for Security Code Matching Instructions.

To access the battery, remove the 4 screws in the back of the Transmitter case and open the case.

Limited Warranty

Customer satisfaction is a fundamental policy at Kramble Industries Inc. All customers can rely upon and expect to receive prompt, efficient and courteous service on all Kramble Industries Inc. manufactured equipment from each and every employee of the organization.

Kramble Industries Inc. with its office at 20-3924 Brodsky Ave, Saskatoon, SK warrants:

To the Original Purchaser/User, each product manufactured by Kramble Industries Inc. to be free from defective material and workmanship, under normal use and service, for a period of 12 months subject to conditions outlined below. The obligation under this warranty is limited to repair, or replacement with a similar genuine company part, for any part of the product of the company's manufacture that is found to be defective.

Warranty period begins the day of purchase. During the first (1st) through the twelfth (12th) month, Kramble will furnish without charge, F.O.B. its plant, a similar genuine part to replace any part of a product of the company's manufacture which proves to be defective, in normal use and service, during this time. Labor to install or repair such parts will be absorbed by Kramble Industries Inc. If this work is to be done other than Kramble personnel, prior approval must be given by Kramble Industries Inc. as to rate and time.

This warranty shall bind the company only as follows:

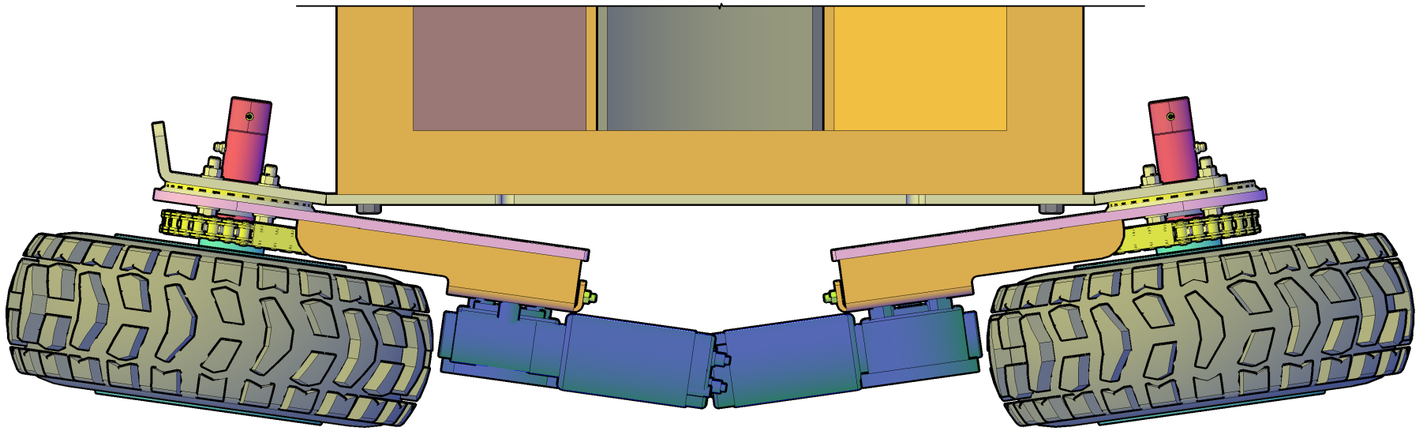
1. The warranty shall be limited to the repair or replacement of defective parts, allother damage, loss, cost or obligation and claim whatsoever, statutory or otherwise, are hereby waived by the original purchaser\user, and again, the warranty hereby given covers only those labor charges specifically authorized by the company in advance.
2. The warranty shall not apply to any failure, or damage incurred through neglect, lack of maintenance, misuse, abuse, accident, improper installation, re-designing of assemblies, ignorance, or through any other cause beyond the control of the company.
3. The warranty does not cover products of other manufacturers beyond such warrantyas may be made by such manufacturer.
4. The warranty shall not apply to normal maintenance services, or todeterioration of appearance of items due to normal use and exposure.
5. The warranty shall not apply when the original purchaser/user has allowed repair and/or service work to be conducted on the product without authorization from the company.

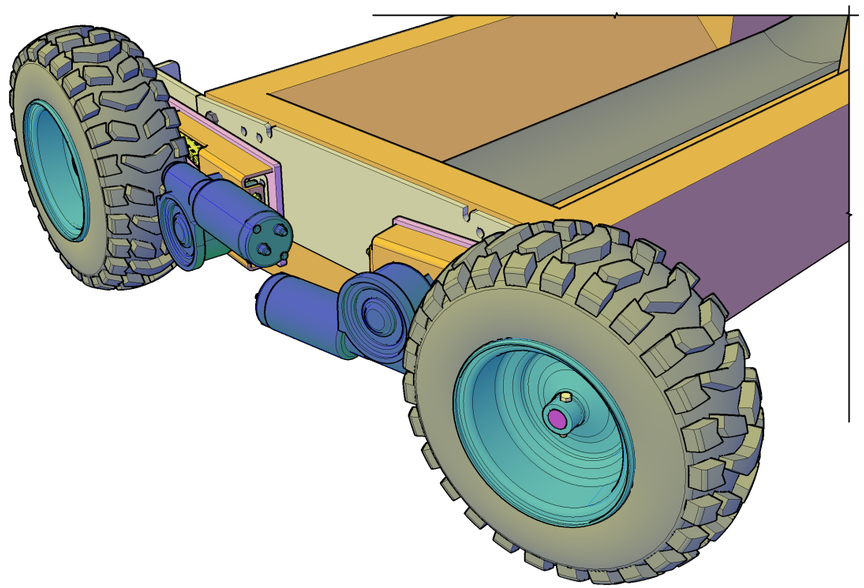
IMPORTANT NOTE:

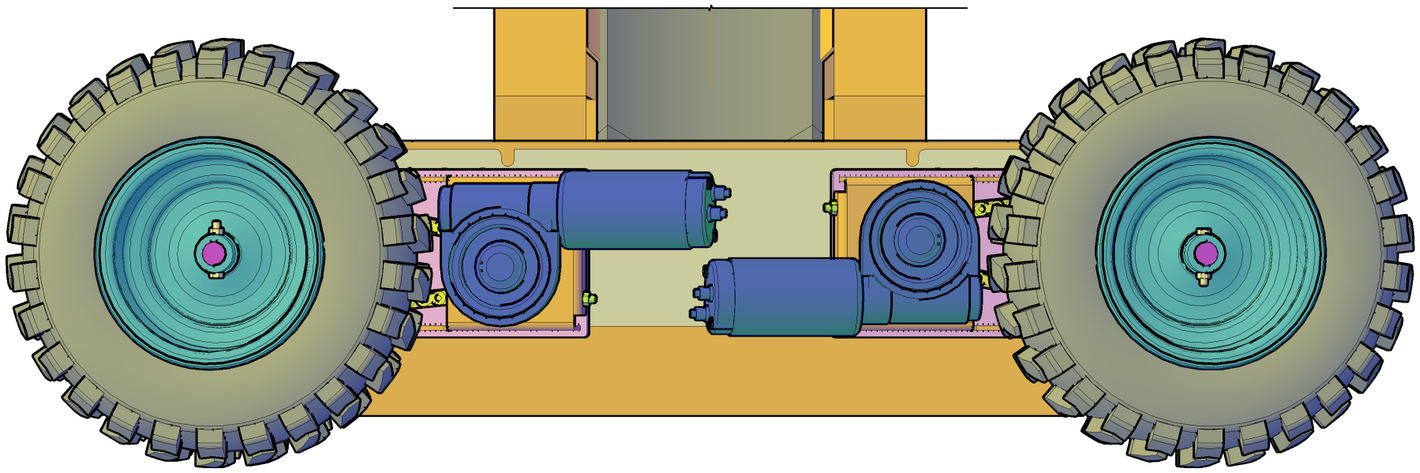
Before any warranty work is done, contact Kramble Industries Inc. for authorization. Failure to do so may result in denial of warranty.

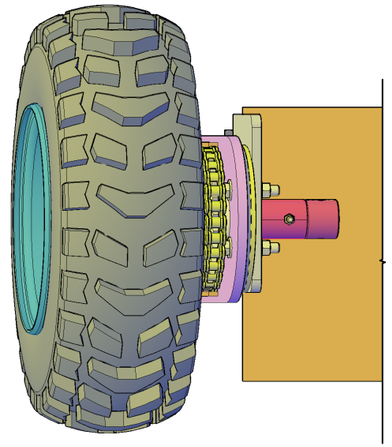
Kramble Industries Inc. is not responsible or liable for indirect, special, or consequential damages arising out of or in connection with the use or performance of the product or other damage with respect to any economic loss, loss of property, loss of revenue or profit, or costs of removal, installation, or reinstallation.

ITEM	DESCRIPTION	PART NO	QTY









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0	ISSUED FOR USE	18AUG14	A.REID

BREAK ALL SHARP EDGES
CHAMFERS 0.015"
RAD. & FILLET 0.125"

3RD ANG. PROJ

STANDARD TOLERANCES	
DIMENSION (IN)	TOLERANCE (IN)
XX.XXX	±0.005
XX.XX	±0.020
XX.X	±0.040
FRAC.: ±1/16	ANGULAR: ±1°

SECTION:	ASSEMBLY	
SCALE:	1:8	
DESIGN. BY:	A.REID	02AUG14
DRAWN BY:	A.REID	02AUG14
APP. BY:		

KRAMBLE INDUSTRIES

BELT AUGER MOVER
BATCO CONVEYOR
MASTER ASSEMBLY

DRAWING NUMBER	REV.
24-SBM-900	1

K:\KRAMBLE INDUSTRIES\PRODUCTS\SWING BELT MOVER\CAD\24-SBM-900-R1 SWING BELT MOVER ASSEMBLY

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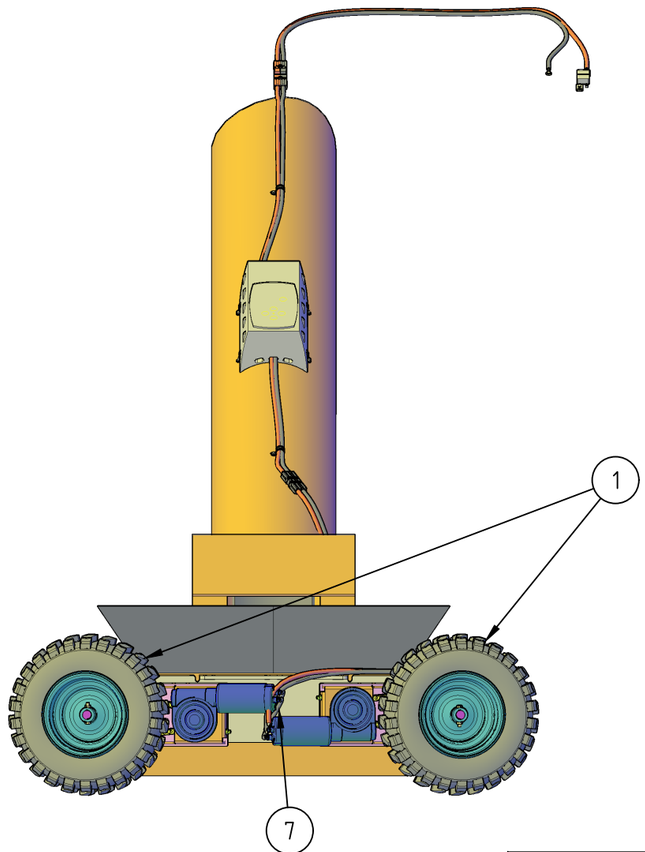
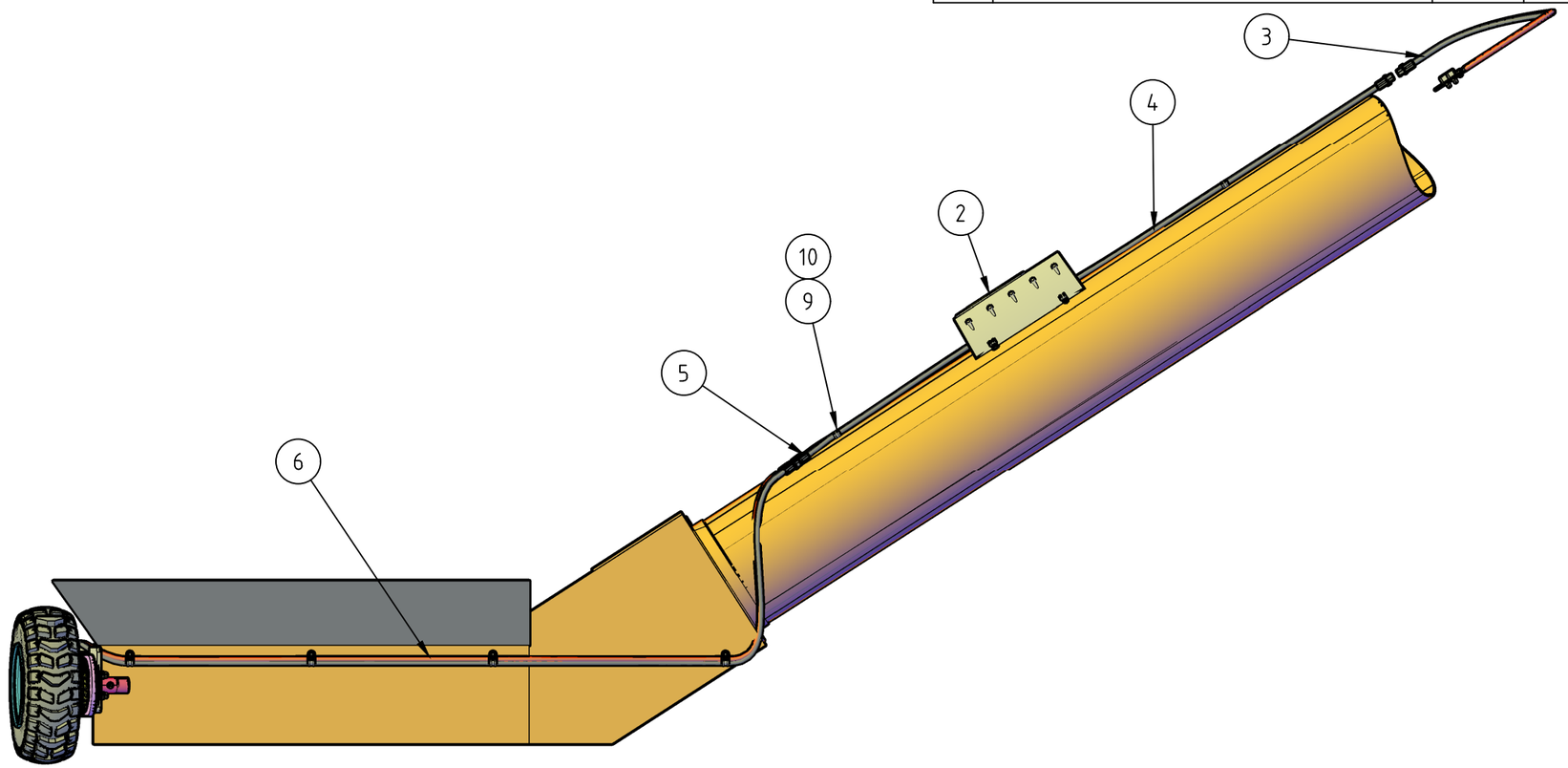
ITEM	DESCRIPTION	PART NO	QTY
1	SWING BELT MOVER WHEEL SET	33514	2
2	SWING BELT MOVER 1 CHANNEL & REMOTE	31000	1
3	SWING BELT MOVER 15' TRACTOR CABLE & FUSE KIT	39510	1
4	SWING BELT MOVER 9' TRACTOR TO CONSOLE CABLE	39570	1
5	SWING BELT MOVER 6' CONSOLE TO MOTORS CABLE	39560	1
6	SWING BELT MOVER 12' MOTORS CABLE	33512	1
7	SWING BELT MOVER 1' MOTOR CROSS OVER CABLE	33513	1
8	GEAR CLAMPS	90050	2
9	3/4" INSULATED CLAMP	93054	6
10	10-16 DRILL POINT X 3/4"	90913	6





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BREAK ALL SHARP EDGES
CHAMFERS 0.015"
RAD. & FILLET 0.125"

3RD ANG. PROJ

STANDARD TOLERANCES	
DIMENSION (IN)	TOLERANCE (IN)
XX.XXX	±0.005
XX.XX	±0.020
XX.X	±0.040
FRAC.: ±1/16	ANGULAR: ±1°

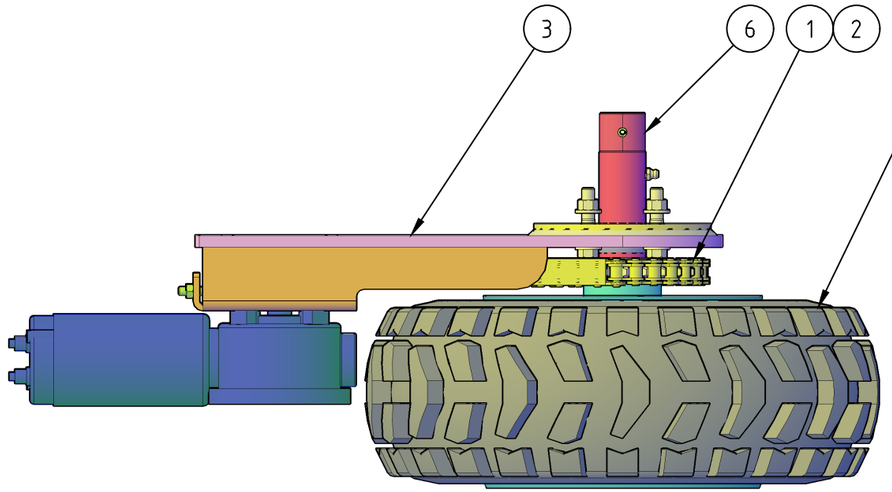
SECTION: **INSTALLATION**
SCALE: **AS NOTED**
DESIGN. BY: **A.REID** **17AUG14**
DRAWN BY: **A.REID** **17AUG14**
APP. BY:

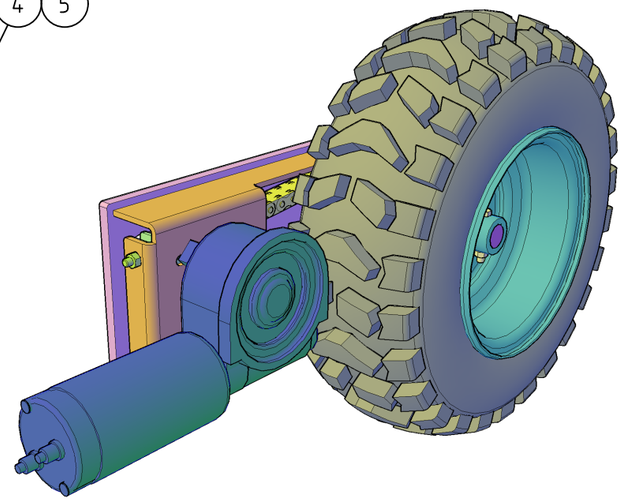
KRAMBLE INDUSTRIES

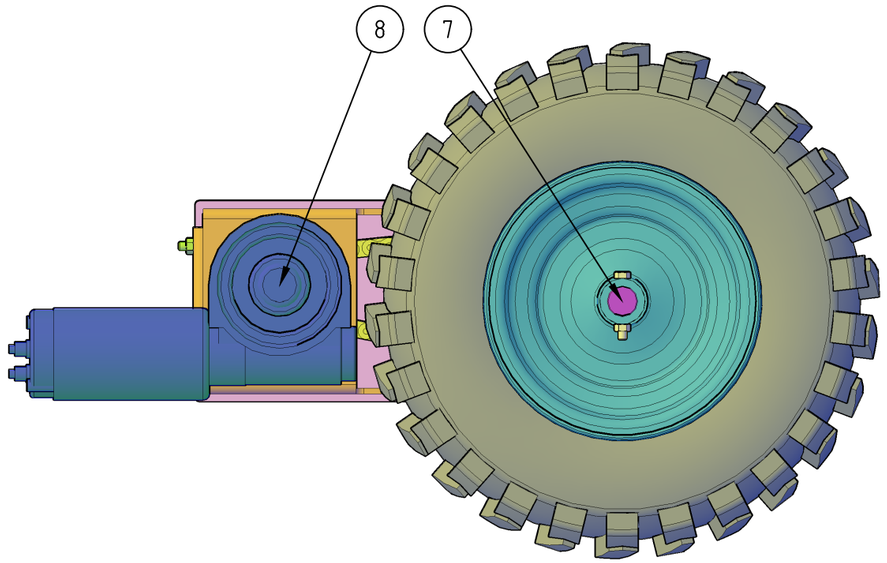
SWING BELT MOVER INSTALLATION DIAGRAM

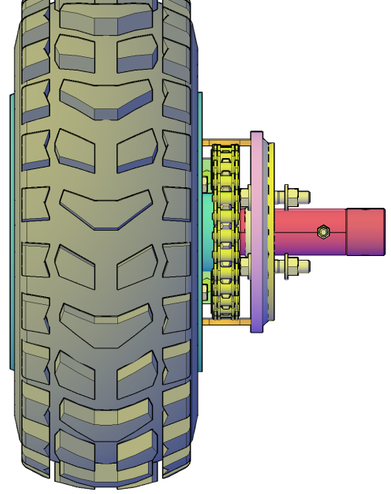
DRAWING NUMBER: 24-SBM-901
REV.: 1

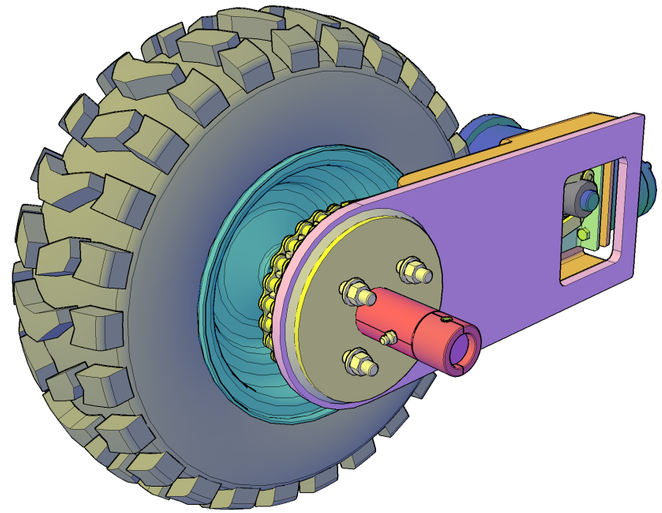
ALAN REID
2/19/2026 11:51:35 AM
\\KRAMBLE-SERVER\BREHON AG\KRAMBLE INDUSTRIES\PRODUCTS\SWING BELT MOVER\CAD\24-SBM-901-R1 SWING BELT MOVER CABLE ASSEMBLY











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2	#50 ROLLER CHAIN CONNECTOR LINK (50-ICI-NTL)	90362	1
3	DRIVE WELDMENT, 24-SBM-200		1
4	WHEEL & TIRE LUG RH 16/6.50X8	90327	1
5	WHEEL & TIRE LUG LH 16/6.50X8	90327	1
6	AXLE SLEEVE COLLAR, 24-SBM-304		1
7	DRIVE AXLE, 24-SBM-202		1
8	RIGHT ANGLE WORM GEAR DRIVE	39550	1
9	CHAIN TENSIONER, SEE 24-SBM-307		1

REV.	DESCRIPTION	DATE	BY
3	ADDED CHAIN TENSIONER	17SEP25	A.REID
2	UPDATED WHEEL ASSEMBLY	15JUL25	A.REID
1	UPDATED PART NUMBERS	07JUL15	A.REID
0	ISSUED FOR USE	28AUG14	A.REID

BREAK ALL SHARP EDGES
CHAMFERS 0.015"
RAD. & FILLET 0.125"

3RD ANG. PROJ

STANDARD TOLERANCES	
DIMENSION (IN)	TOLERANCE (IN)
XX.XXX	±0.005
XX.XX	±0.020
XX.X	±0.040
FRAC.: ±1/16	ANGULAR: ±1°

SECTION:	ASSEMBLY	
SCALE:	AS NOTED	
DESIGN. BY:	A.REID	03AUG14
DRAWN BY:	A.REID	03AUG14
APP. BY:		

KRAMBLE INDUSTRIES

24" BELT AUGER MOVER SWING DRIVE ASSEMBLY

DRAWING NUMBER	REV.
24-SBM-100	3

ALAN
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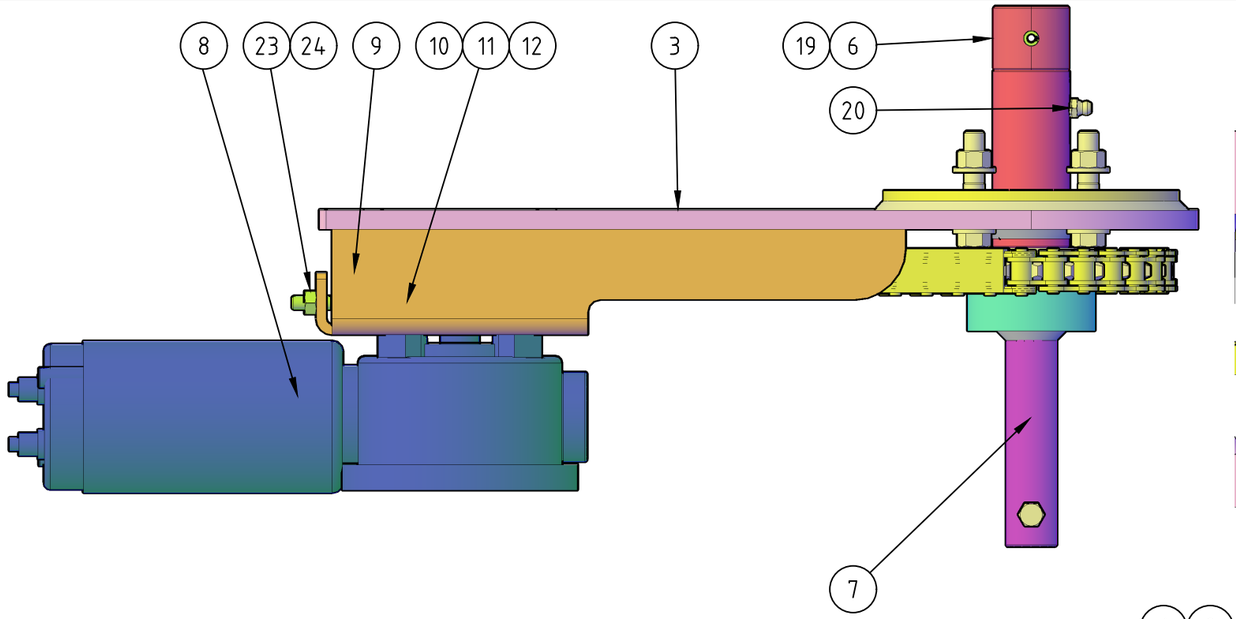

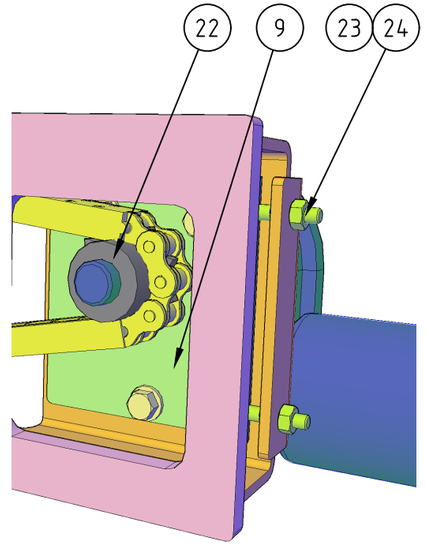

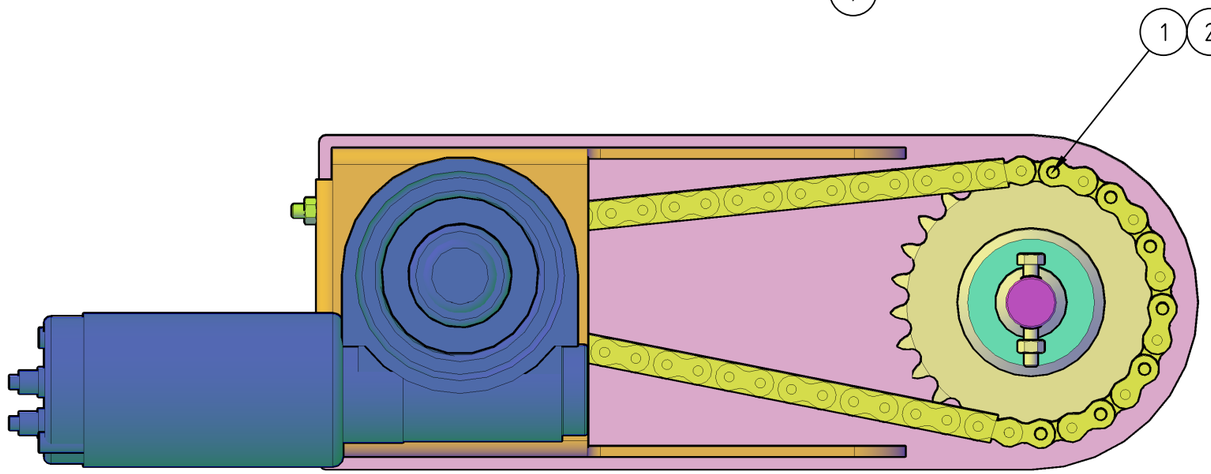

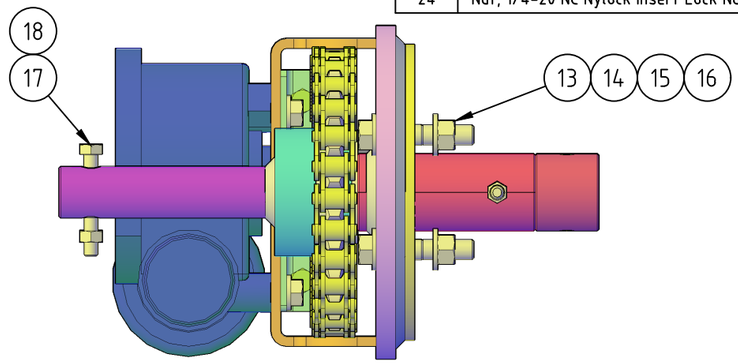

ITEM	DESCRIPTION	PART NO	QTY
1	Chain, #50 x 53 Links (SBM)	90538	1
2	Chain, #50 Quick Link	90362	1
3	DRIVE WELDMENT	24-SBM-200	1
4	Wheel, Tire Tubeless CLEAT 16/6.50x8 (Right) BLACK	92567	1
5	Wheel, Tire Tubeless CLEAT 16/6.50x8 (Left) BLACK	92568	1
6	AXLE SLEEVE COLLAR	24-SBM-304	1
7	DRIVE AXLE	24-SBM-202	1
8	RIGHT ANGLE WORM GEAR DRIVE	39550	1
9	CHAIN TENSIONER	24-SBM-307	1
10	Washer, 5/16" Flat SAE	90237	3
11	Washer, 5/16" Split Lock	90238	3
12	Bolt, 5/16-18 x 1" NC	90908	3
13	Bolt, 7/16-14 x 2" NC Hex Head	90635	4
14	Washer, 7/16" Split Lock	90239	4
15	Washer, 7/16" Flat SAE	90540	4
16	Nut, 7/16-14 NC Hex	90535	4
17	Nut, 5/16-18 Hex Nylock	90195	1
18	Bolt, 5/16-18 x 2 Hex Cap	90172	1
19	Roll Pin - 5/16" x 2.0" Yellow Plated	90202	1
20	Grease Nipple 1/4-28 Straight	90367	1
21	3/16" Square x 1-1/4"	90621	1
22	Sprocket, #50 9 Tooth 3/4" Bore	90370	1
23	Bolt, 1/4-20 x 1-1/4" UNC Hex Head Tap - Full Thread	90914	2
24	Nut, 1/4-20 NC Nylock Insert Lock Nut Grade 2 YZ	90409	2

REV.	DESCRIPTION	DATE	BY
3	COMPLETE REDRAW	08JAN26	A.REID
2	UPDATED DESCRIPTIONS & PART NUMBERS	08MAR16	I.RAMOS
1	UPDATED PART NUMBERS	07JUL15	A.REID
0	ISSUED FOR USE	28AUG14	A.REID

BREAK ALL SHARP EDGES
CHAMFERS 0.015"
RAD. & FILLET 0.125"

3RD ANG. PROJ

STANDARD TOLERANCES	
DIMENSION (IN)	TOLERANCE (IN)
XX.XXX	±0.005
XX.XX	±0.020
XX.X	±0.040
FRAC.: ±1/16	ANGULAR: ±1°

SECTION: **ASSEMBLY**
SCALE: **1:3**
DESIGN. BY: **A.REID** **03AUG14**
DRAWN BY: **I.RAMOS** **13MAR16**
APP. BY:

KRAMBLE INDUSTRIES

24" BELT AUGER MOVER SWING DRIVE ASSEMBLY

DRAWING NUMBER: 24-SBM-105
REV.: 3

ALAN
K:\KRAMBLE INDUSTRIES\PRODUCTS\SWING BELT MOVER\CAD\24-SBM-105-R3 SWING BELT MOVER DRIVE DETAILED ASSEMBLY
1/9/2026 8:40:23 AM