

INSTRUCTION SHEET

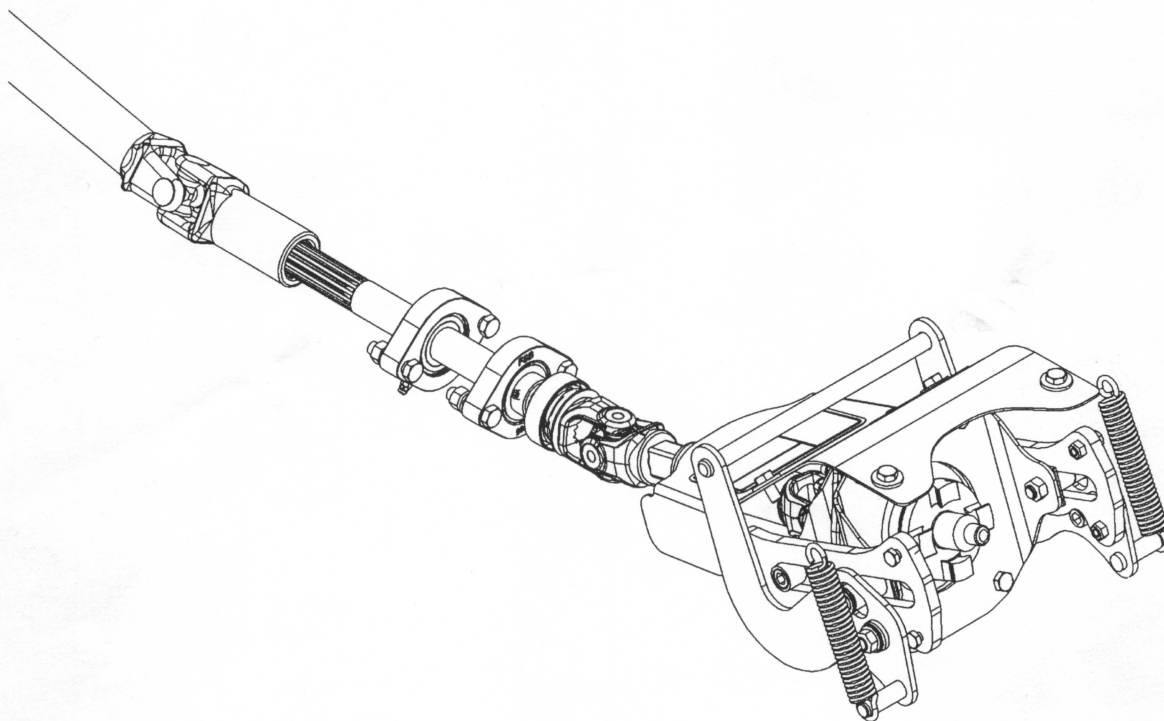
BX2811-A / Rev0 11-16

MANUAL PN 77700-07786

Kubota®

BX2811 – DRIVE SYSTEM "K-CONNECT"

Approximate assembly time: 45-60 min



For 4 Point Hitch A Shape BX2810

**PLEASE READ THIS MANUAL CAREFULLY
KEEP READY AT ALL TIMES**

INTRODUCTION

This document contains the Installation Instructions for the BX2811 drive system for the 4 Point Male Hitch BX2810. Consult the Operator's Manual of the hitch for the safety, operation and troubleshooting information.

Illustrations

The illustrations may not necessarily reproduce the full detail and the exact shape of the parts or depict the actual models, but are for reference only.

Direction Reference

All references to right and left, forward or rearward are from the operator seat.

SAFETY FIRST

This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully. It is essential that you read the instructions and safety regulations before you attempt to assemble or use this unit.



DANGER : Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING : Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION : Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

IMPORTANT : Indicates that equipment or property damage could result if instructions are not followed.

NOTE : Gives helpful information.

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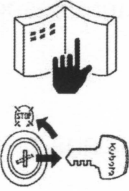

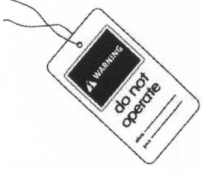









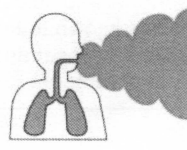

California Proposition 65

WARNING

Engine exhaust, some of its constituents, certain vehicle components and fluids, contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

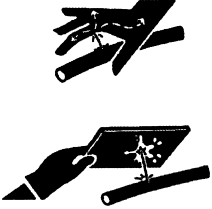
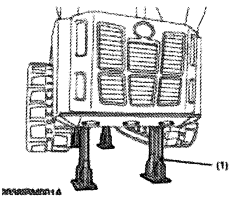
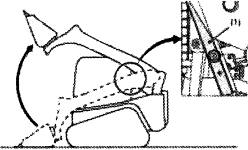


GENERAL SAFETY INFORMATION

	<p>BEFORE YOU START SERVICE</p> <ul style="list-style-type: none"> • Read all instructions and safety instructions in this manual and on your machine safety decals. • Clean the work area and machine. • Park the machine on a stable and level ground, and set the parking brake. • Lower the implement to the ground. • Stop the engine, then remove the key. • Disconnect the battery negative cable. • Hang a "DO NOT OPERATE" tag in the operator station. 		<p>No Smoking or Open Flames while Fueling</p> <ul style="list-style-type: none"> • Fuel is extremely flammable and dangerous. Never smoke near fuel. If fuel is spilled on the machine, its engine, or electrical parts, it may cause a fire. If fuel is spilled, wipe it all up immediately. • Never smoke while filling the machine with fuel. And always tighten the fuel cap securely and wipe up any spilled fuel.
	<ul style="list-style-type: none"> • When performing maintenance on the equipment, hang the DO NOT OPERATE sign where it will be obvious from and around the driver's seat. • When performing maintenance or repairs, always lower attachments to the ground, stop the engine and secure the tracks with blocks. • When performing maintenance on the equipment, always disconnect the negative battery cable. • Before using tools, make sure you understand how to use them correctly and use tools in good condition and of the right size for the job. 		<ul style="list-style-type: none"> • Before getting on/off of the machine, clean off around the steps so there is no mud on them. Always give yourself 3-point support when getting on/off the machine. <p>CAUTION</p> <ul style="list-style-type: none"> • 3-point support means using both legs and one hand or both hands and one leg as you climb up/down.
	<p>START SAFELY</p> <ul style="list-style-type: none"> • Do not do the procedures below when you start the engine. <ul style="list-style-type: none"> – short across starter terminals – bypass the safety start switch • Do not alter or remove any part of machine safety system. • Before you start the engine, make sure that all shift levers are in neutral positions or in disengaged positions. • Do not start the engine when you stay on the ground. Start the engine only from operator's seat. 		<ul style="list-style-type: none"> • Do not remove the radiator cap when the engine operates, or immediately after it stops. If not, hot water can spout out from the radiator. Only remove the radiator cap when it is at a sufficiently low temperature to touch with bare hands. Slowly loosen the cap to release the pressure before you remove it fully.
	<p>Starting the Machine Safely</p> <ul style="list-style-type: none"> • Before starting the engine, always sit in the driver's seat and make sure the area is safe and clear. • As it is dangerous, never start the engine from anywhere but the driver's seat. • Always check and make sure control lever(s) are not engaged before starting the engine. • Never start the engine by hot-wiring the starter circuit. This is not only dangerous, but may damage the machine. 		<ul style="list-style-type: none"> • The engine, muffler, radiator, hydraulic line, etc., have parts that remain very hot even after the engine has been stopped. Be sure to avoid these parts, as touching them can result in burns. Radiator coolant, hydraulic fluid and oil also remain hot. Therefore, do not attempt to remove caps and plugs, etc., before these fluids have sufficiently cooled. • Make sure the coolant temperature has dropped sufficiently before opening the radiator cap. Also, since the inside of the radiator is pressurized, when removing the cap, first loosen it to release the pressure before removing the cap completely.
	<ul style="list-style-type: none"> • Wear clothes appropriate for working on equipment. Do not wear loose-fitting clothes as they may catch on the machine controls. • When working on the equipment, use all safety gear, such as a helmet, safety glasses and shoes, that are required by law or regulation. • Never perform maintenance while drowsy or under the influence of alcohol or drugs. 		<ul style="list-style-type: none"> • Grease is under high pressure inside the hydraulic cylinder. It is very dangerous to loosen a grease nipple quickly as it may shoot off. Always loosen grease nipples slowly. • And never face a grease nipple while loosening it.
	<p>Be Ready for an Emergency</p> <ul style="list-style-type: none"> • Keep a first-aid kit and fire extinguisher close at hand so you can use it when needed. • Keep emergency contact information for doctors, hospitals and ERs handy. 		<p>PREVENT A FIRE</p> <ul style="list-style-type: none"> • Fuel is very flammable and explosive under some conditions. Do not smoke or let flames or sparks in your work area. • To prevent sparks from an accidental short circuit, always disconnect the battery negative cable first and connect it last. • The battery gas can cause an explosion. Keep the sparks and open flame away from the top of battery, especially when you charge the battery. • Make sure that you do not spill fuel on the engine.
	<p>KEEP A GOOD AIRFLOW IN THE WORK AREA</p> <ul style="list-style-type: none"> • If the engine is in operation, make sure that the area has good airflow. Do not operate the engine in a closed area. The exhaust gas contains poisonous carbon monoxide. 		<p>Dispose of Waste Fluids Properly</p> <ul style="list-style-type: none"> • Never dispose of waste fluids on the ground, in the gutter, a river, pond or lake. Always dispose of hazardous substances like waste oil, coolant and electrolytic fluid in accordance with the relevant environmental protection regulations. • Keep the safety plates clean so they can be read. If a safety plate is damaged and comes off or becomes illegible, put a plate with the same warnings back in its place.



GENERAL SAFETY INFORMATION

	<ul style="list-style-type: none">• The pressure in the hydraulic circuit stays at pressure even after the engine stops. Before removing parts, such as hydraulic devices from the machine, first release the pressure. Please note that when releasing residual pressure, the machine itself and/or implements may move without warning, so be very careful when releasing the pressure.• Oil gushing out under pressure is extremely dangerous as it may pierce your skin or your eyes. Similarly, oil leaking out of pinholes is not visible. So when checking for oil leaks, always wear safety glasses and gloves and use a piece of cardboard or a wood block to shield yourself from oil.		<ul style="list-style-type: none">• When you need to access the underside of the machine for maintenance purposes, but sure to support the machine with a safety stand. Getting under the machine while supporting the machine by machine's own hydraulic cylinder or using a hydraulic jack can be extremely dangerous in the event of a hydraulic fluid leakage or similar mishap. <p>(1) Safety stand</p>
	<ul style="list-style-type: none">• Do not open a fuel system under high pressure. The fluid under high pressure that stays in fuel lines can cause serious injury. Do not disconnect or repair the fuel lines, sensors, or any other components between the fuel pump and injectors on engines with a common rail fuel system under high pressure.• Put on an applicable ear protective device (earmuffs or earplugs) to prevent injury against loud noises.• Be careful about electric shock. The engine generates a high voltage of more than DC100 V in the ECU and is applied to the injector.		<ul style="list-style-type: none">• Whenever it is necessary to open the engine covers or hood in order to service the machine, always prop them open.• If it is absolutely necessary to run the engine while working on the machine, make sure you are clear of all rotating or moving parts. Also take care not to leave anything, such as tools or rags, near any moving parts.
	<ul style="list-style-type: none">• Make sure the lift arm stopper is properly engaged before performing any work beneath raised lift arms. Never attempt to do any work or move under the lift arms when they are not properly supported.• Keep in mind that the lift arms may fall whenever hydraulic lines are disconnected, loosened, or removed. Any malfunction or failure in the hydraulics can also cause lift arms to drop.• Always perform the necessary repairs or service whenever the lift arm stopper becomes damaged or malfunctioned, or part are missing. Damaged or malfunction the lift arm stopper may cause the lift arms to fall causing serious injury or death. <p>(1) Lift arm stopper</p>		

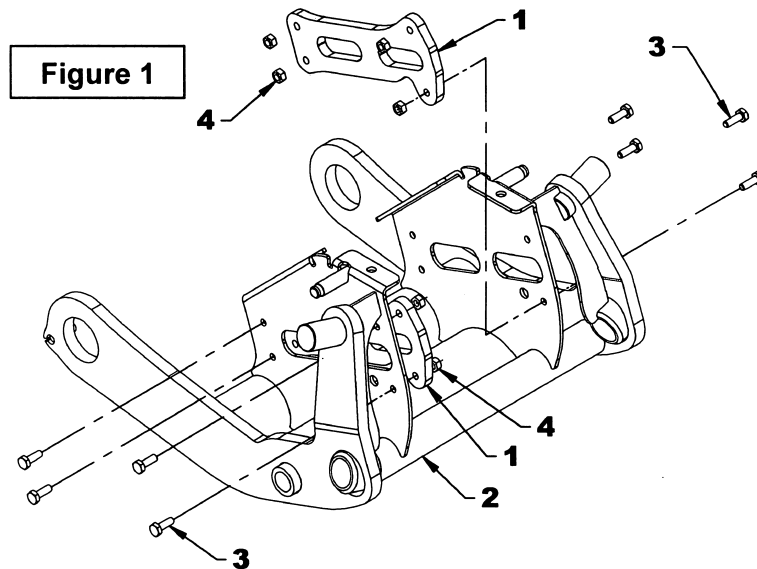
INSTALLATION

⚠ WARNING: To avoid serious personal injury or death: Read and understand the SAFETY INFORMATION on the previous pages before installation and operation Perform all the assembly with all properly locked and supported.. **TIGHTEN ALL BOLTS ACCORDING TO THE TORQUE SPECIFICATION TABLE AT THE END OF THIS INSTRUCTION SHEET.**

⚠ WARNING: To avoid serious personal injury or death: Park the tractor on level ground, place the transmission in neutral, set the parking brake, disengage the drive system, put all levers to neutral, shut off the engine, remove the ignition key and wait for all movement to stop **BEFORE** starting installation or making adjustments.

STEP 1: INSTALLATION OF THE ANTI-FRICTION GUIDES

1. **Figure 1:** Gather all the items listed in the table of figure 1.
2. **Figure 1:** Secure the two anti-friction guides" (item 1 to the male hitch (item 2) with eight 1/4"NC x 3/4" lg. bolts (item 3) and eight 1/4"NC stover nuts (item 4).

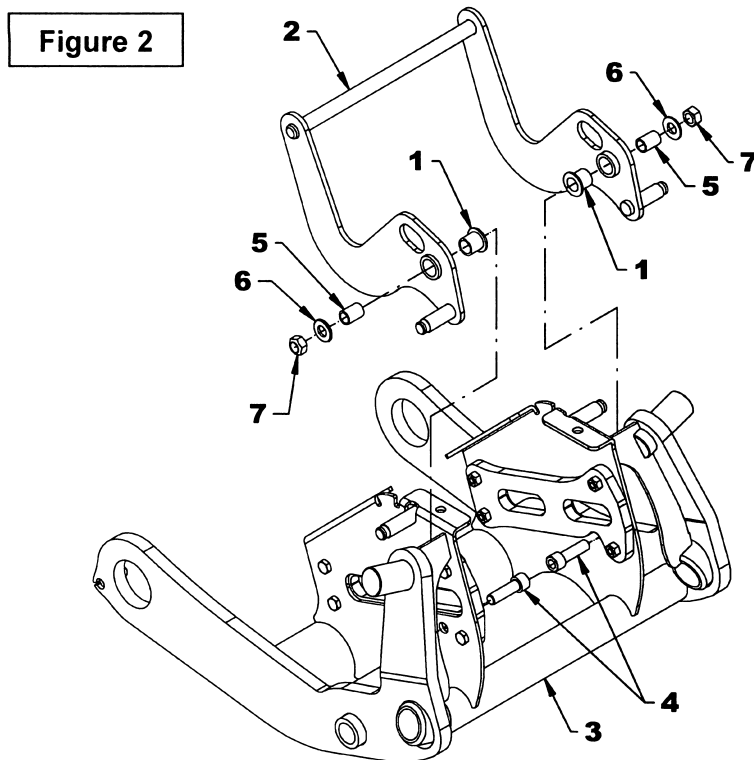


N°	PARTS FIGURE 8	QTY
1	Anti-friction guide 3/8"	2
2	4 point male hitch	1
3	Hex. bolt 1/4"NC x 3/4" lg.	8
4	Stover nut 1/4"NC	8

INSTALLATION

STEP 2: INSTALLATION OF THE ENGAGEMENT LEVER

1. **Figure 2:** Gather all the items listed in the table of figure 2.
2. **Figure 2:** Insert the 5/8" lg. X 1/2" ID X 5/8" OD plastic shoulder bushings (item 1) in the engagement lever bushings (item 2).
3. **Figure 2:** Attach the engagement lever (item 2) to the male hitch (item 3) with two 3/8"NC X 1 1/4" lg. allen socket head capscrew (item 4), two Ø1/2" x 11/16" lg. pivot bushings (item 5), two 10mm flat washers (item 6) and two 3/8"NC stover nuts (item 7).



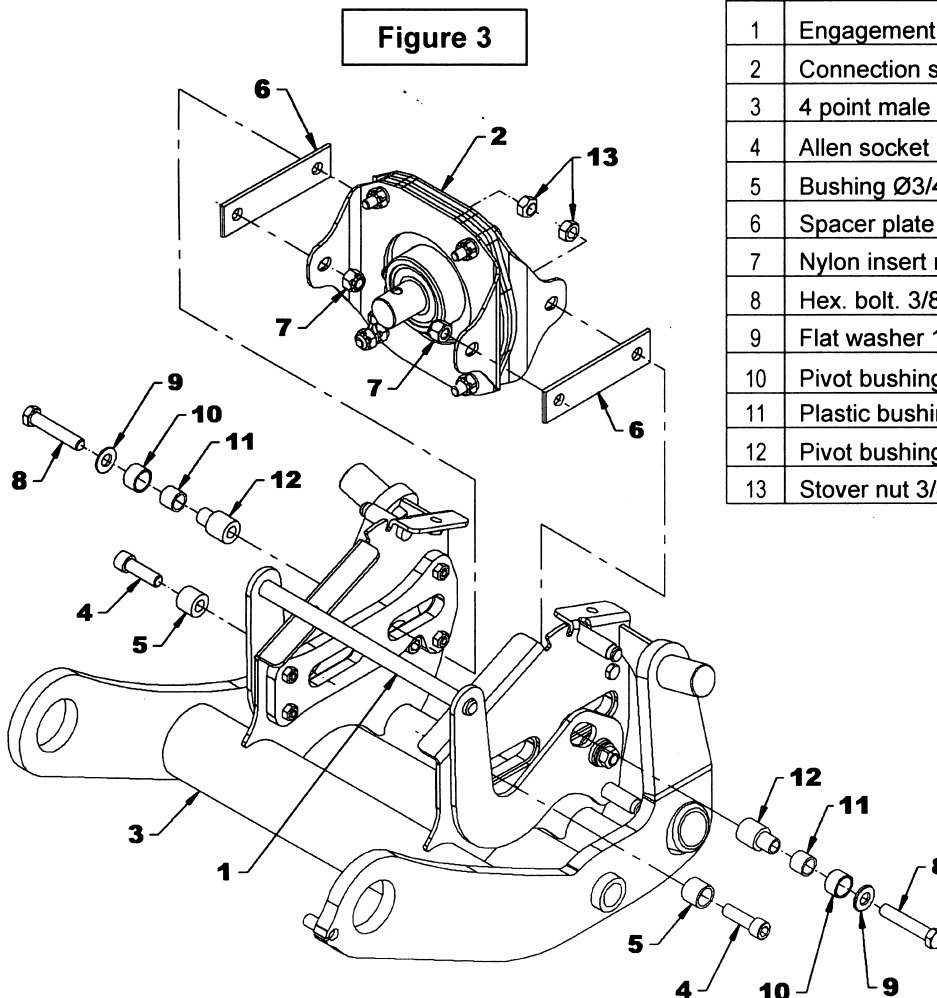
N°	PARTS FIGURE 2	QTY
1	Plastic shoulder bushing 5/8" lg. x 1/2" Ø int. x 5/8" Ø ext.	2
2	Engagement lever	1
3	4 point male hitch	1
4	Allen socket head capscrew 3/8"NC x 1 1/4" lg.	2
5	Pivot bushing Ø1/2" X 11/16" lg.	2
6	Flat washer 10MM (10.5MM Ø INT.)	2
7	Stover nut 3/8"NC	2

INSTALLATION

STEP 3: INSTALLATION OF THE CONNECTION SUPPORT

- Figure 3:** Gather all the items listed in the table of figure 3.
- Figure 3:** Push the engagement lever (item 1) towards the rear as shown on figure.
- Figure 3:** Insert the two 3/8"NC x 1 1/4" lg. allen socket head capscrews (item 4) in the $\varnothing 3/4"$ ext. x 5/8" lg. bushings (item 5).
IMPORTANT: The capscrew head must be inserted completely inside the bushings (item 5).
- Figure 3:** Attach the rear of the connection support (item 2) with two 3/8"NC x 1 1/4" lg. allen socket head capscrow (item 4), two $\varnothing 3/4"$ ext. x 5/8" lg. bushings (item 5), two spacer plates (item 6) and two 3/8"NC nylon insert nuts (item 7).
- Figure 3:** Insert the two $\varnothing 5/8"$ ext. x $\varnothing 1/2"$ int. x 1/2" lg. plastic bushings (item 11) inside the two $\varnothing 3/4"$ ext. x 15/32" lg. pivot bushings (item 10).
- Figure 3:** Attach the front of the connection support (item 2) with two 3/8"NC x 2" lg. bolts (item 8), two 10mm flat washers (item 9), two $\varnothing 3/4"$ ext. x 15/32" lg. pivot bushings (item 10), two $\varnothing 5/8"$ ext. x $\varnothing 1/2"$ int. x 1/2" lg. plastic bushings (item 11), two $\varnothing 3/4"$ ext. x 1 1/4" lg. pivot bushings (item 12), two spacer plates (item 6) and two 3/8"NC stover nuts (item 13).

IMPORTANT: Make sure to completely insert the two $\varnothing 3/4"$ ext. x 1 1/4" lg. pivot bushings (item 12) in the slotted holes of the engagement lever (item 1).

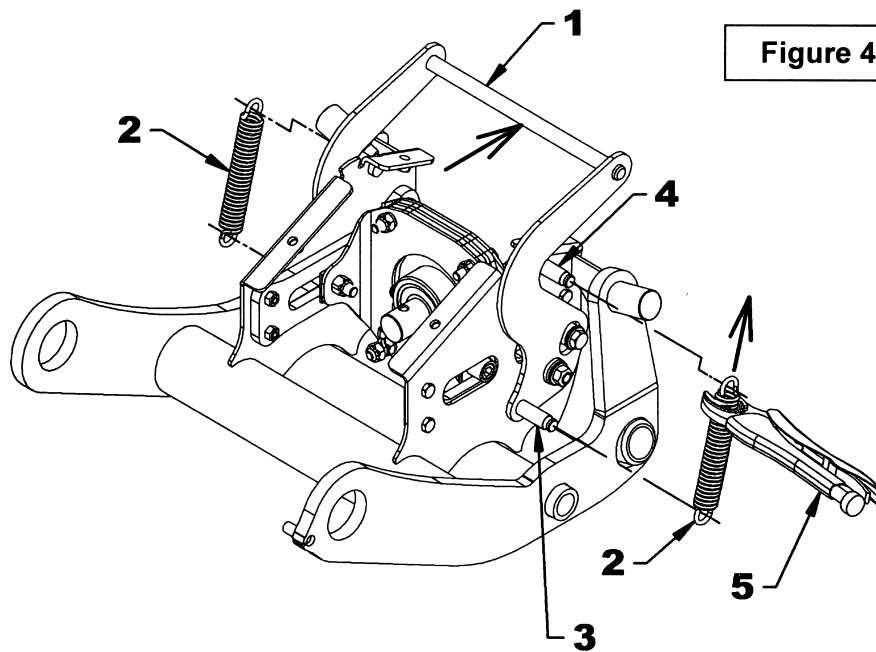


N°	PARTS FIGURE 3	QTÉ
1	Engagement lever	1
2	Connection support	1
3	4 point male hitch	1
4	Allen socket head capscrow 3/8"NC x 1 1/4" lg	2
5	Bushing $\varnothing 3/4"$ ext. x 5/8" lg.	2
6	Spacer plate 2 holes	2
7	Nylon insert nut 3/8"NC	2
8	Hex. bolt. 3/8"NC x 2" lg.	2
9	Flat washer 10MM (10.5MM \varnothing ext.)	2
10	Pivot bushing $\varnothing 3/4"$ ext. x 15/32" lg.	2
11	Plastic bushing 5/8" OD X 1/2" ID X 1/2" lg.	2
12	Pivot bushing $\varnothing 3/4"$ ext. x 1 1/4" lg.	2
13	Stover nut 3/8"NC	2

INSTALLATION

STEP 4: INSTALLATION OF THE TENSION SPRINGS

1. **Figure 4:** Gather all the items listed in the table of figure 4.
2. **Figure 4:** Push the engagement lever (item 1) forward as illustrated.
3. **Figure 4:** Hook one end of each tension spring (item 2) to an engagement lever pin (item 3).
4. **Figure 4:** With a vise-grip, not included, (item 5) hook the other end of each spring (item 2) to the male hitch pins (item 4).

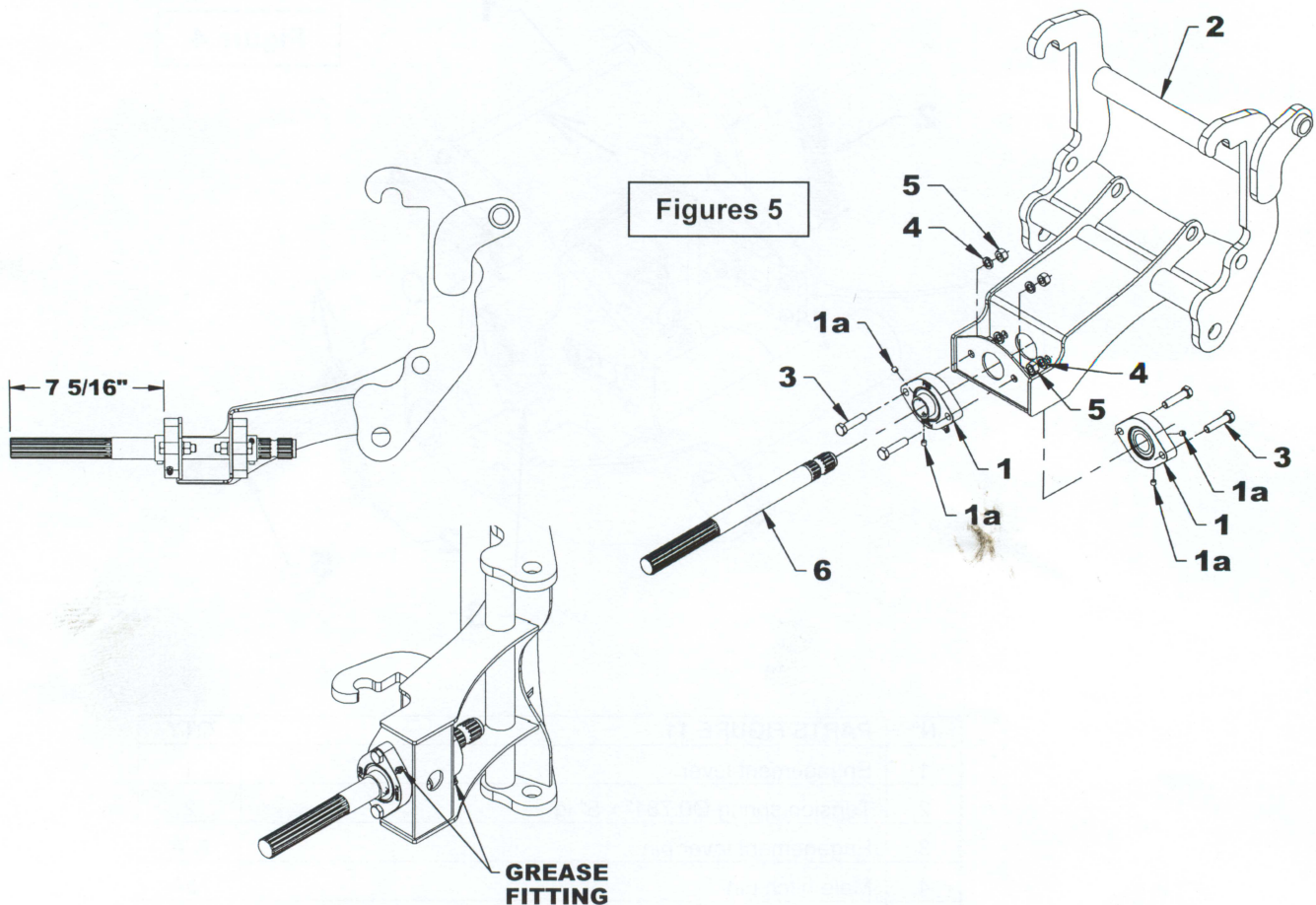


N°	PARTS FIGURE 11	QTY
1	Engagement lever	1
2	Tension spring Ø0.781" x 5" lg.	2
3	Engagement lever pin	N/A
4	Male hitch pin	N/A
5	Vise-grip (not included)	1

INSTALLATION

STEP 5: INSTALLATION OF THE OUTPUT SHAFT

- Figure 5:** Gather all the items listed in the table of figures 5.
- Figure 5:** Attach, without tightening, the two flange bearings (items 1) to the subframe (item 2) with two 3/8"NC x 1 1/2" lg. bolts, 3/8"NC lockwashers and nuts (items 3-4-5) making sure the grease fittings point towards the ground as shown on the figure
- Figure 5:** Temporarily remove the four setscrews (item 1a) from the flange bearings (items 1) and insert the output shaft (item 6) in the two bearings (items 1).
- Figure 5:** Tighten the four 3/8"NC x 1 1/2" lg. bolts (items 3) according to the torque specification table.
- Figure 5:** Place the end of the output shaft with the longest splines (item 6) at 7 5/16" of the rear bearing (items 1) as shown on figure.
- Figure 5:** Apply thread sealant (loctite #243) in the threaded bearing holes (items 1) and on the threads of the setscrews (items 1a) and screw tightly in the two bearings (items 1).



N°	PARTS FIGURES 12	QTY
1	Flange bearing 1"	2
2	Subframe	1
3	Hex. bolt 3/8"NC x 1 1/2" lg.	4
4	Lockwasher 3/8"	4
5	Hex. nut 3/8"NC	4
6	Output shaft 1" X 13 3/8" LG	1
N/A	Threadlocker (LOCTITE #243) not included	---

INSTALLATION

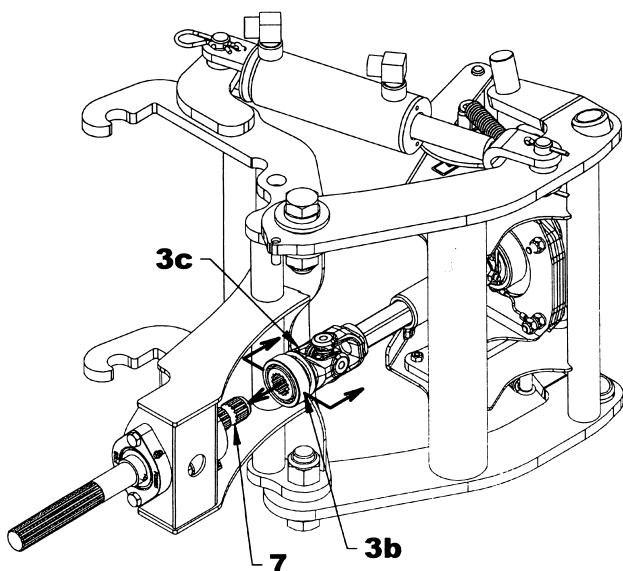
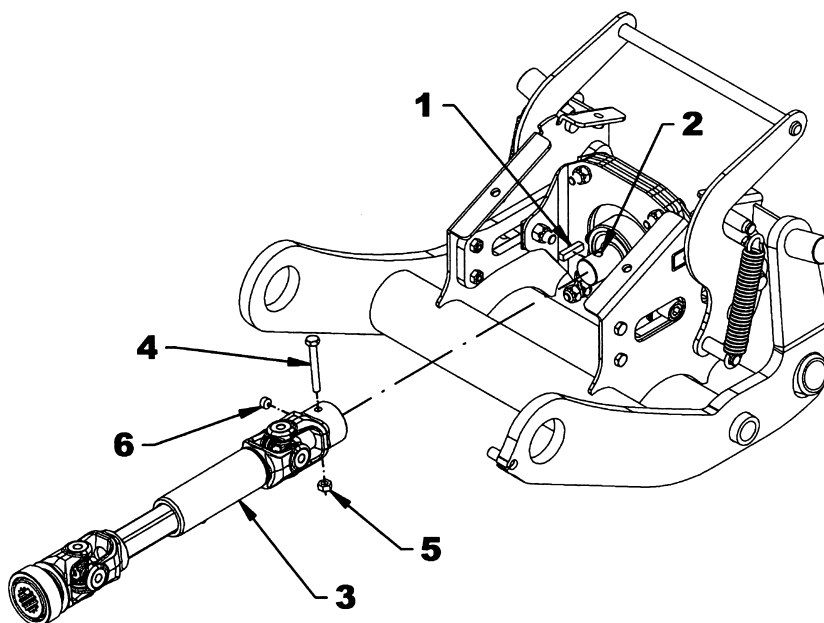
STEP 6: INSTALLATION OF THE TELESCOPIC DRIVE LINE

1. **Figure 6:** Gather all the items listed in the table of figures 6.
2. **Figure 6:** Insert the 1/4" x 1/4" x 1" lg. key (item 1) in the clutch shaft keyway (item 2) and attach the driveline (item 3) with the 1/4"NC x 2" lg. bolt (item 4) and the 1/4"NC stover nut (item 5).
3. **Figure 6:** Apply thread sealant (loctite #243) to the 3/8"NC x 1/4" lg. setscrew (item 6) and in the driveline threads (item 3). Screw in setscrew (item 6) tightly in the male driveline yoke (item 3).

4. **Figure 6:** Disengage the locking collar (item 3b) by pushing it back and pull on the yoke (item 3c) to connect the driveline to the output shaft (item 7). Release the yoke and make sure the locking collar is back in its proper position. Pull and push on driveline to make sure it's securely locked.

⚠ WARNING: To avoid serious injury or death: Make sure that the quick connect yoke is securely locked in place. A "click" must be heard.

Figure 6



N°	PARTS FIGURE 6	QTY
1	Key 1/4" x 1/4" x 1" lg	1
2	Male automatic clutch shaft	1
3	Driveline	1
4	Hex. bolt 1/4"NC x 2" lg	1
5	Stover nut 1/4"NC	1
6	Allen set screw 3/8" NC x 1/4" lg	1
7	Output shaft 1" x 13 3/8" lg	1
N/A	Threadlocker (LOCTITE #243) not included	---

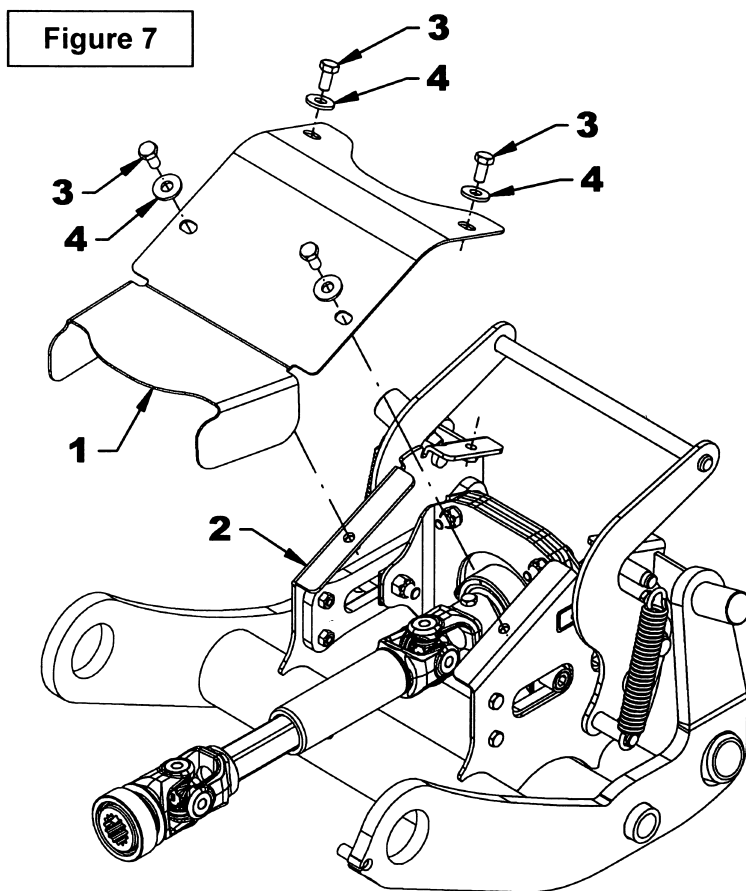
INSTALLATION

STEP 7: INSTALLATION OF THE DRIVELINE GUARD

IMPORTANT: Before proceeding with the installation of the driveline guard, grease the two flange bearings, the telescopic and fixed drivelines according to the recommendations in the "MAINTENANCE" section of the BX2810 subframe manual.

1. **Figure 7:** Gather all the items listed in the table of figure 7.
2. **Figure 7:** Attach the driveline guard (item 1) to the male hitch (item 2) with four 5/16"NC x 5/8" lg. bolts (items 3) and four 5/16" flat washers (items 4).

⚠ WARNING: To avoid serious injury or death: Make sure the driveline guard (item 1) is installed BEFORE using the hitch.



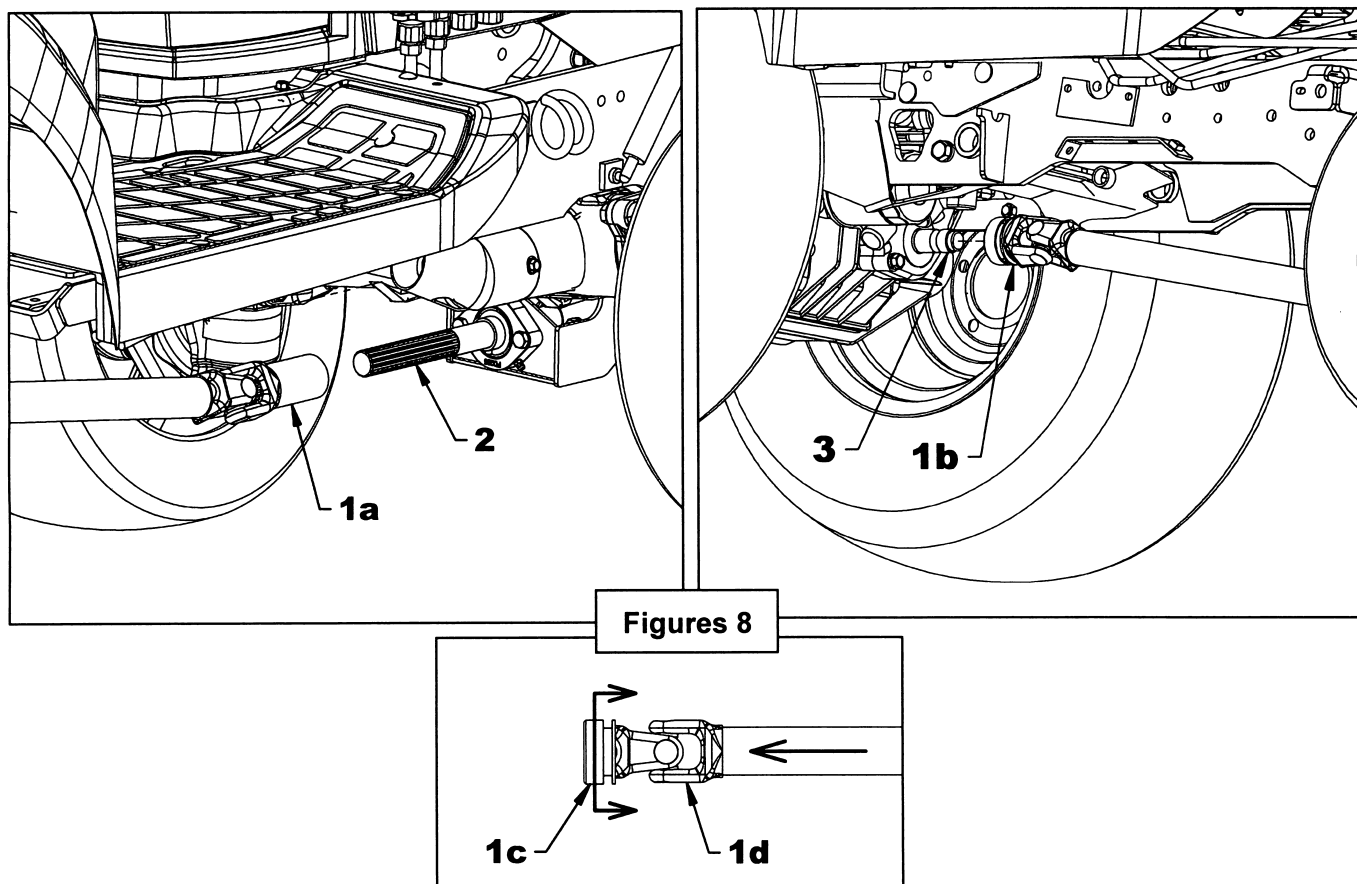
N°	PARTS FIGURE 7	QTY
1	Driveline guard	1
2	4 point male hitch	1
3	Hex. bolt 5/16"NC x 5/8" lg	4
4	Flat washer ø5/16" (3/8" int.)	4

INSTALLATION

STEP 8: INSTALLATION OF THE FIXED DRIVELINE

1. **Figures 8:** Gather all the items listed in the table of figure 8.
2. **Figures 8:** After completing the installation of the subframe on the tractor attach the longest yoke of the fixed driveline (item 1a) to the output shaft (item 2).
3. **Figures 8:** Disengage the locking collar (item 1c) by pushing it back and pull on the yoke (item 1d) to connect the fixed driveline to the tractor PTO (item 3). Release the yoke and make sure the locking collar is back in its proper position. Pull and push on driveline to make sure it's securely locked.

⚠ WARNING: To avoid serious injury or death: Make sure that the quick connect yoke is securely locked in place. A "click" must be heard.



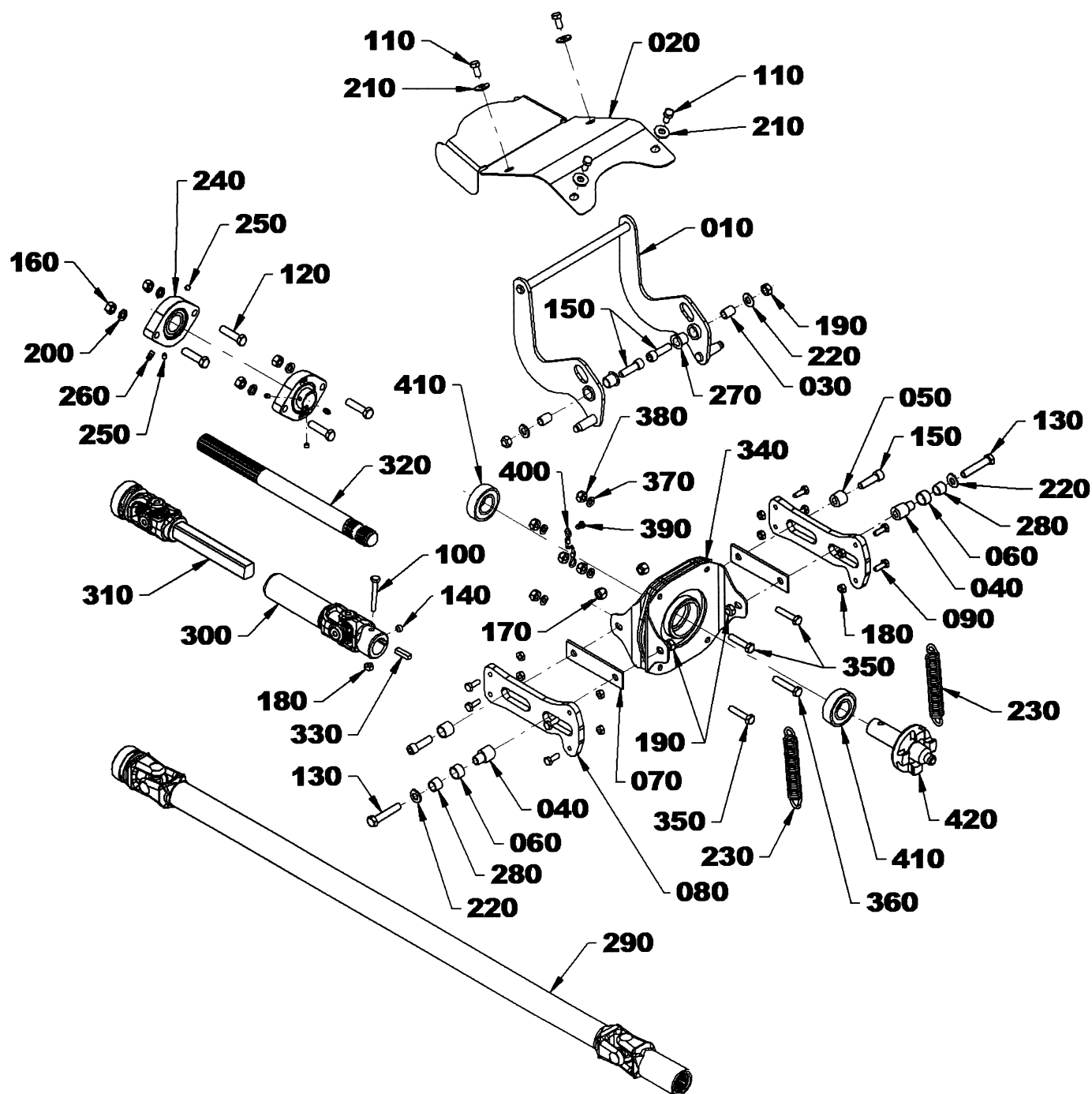
N°	PARTS FIGURES 8	QTY
1	Fixed driveline, 37 3/8" lg. c/c	1
2	Output shaft 1" x 13 3/8" lg.	1
3	Tractor PTO	1

PARTS

DRIVE SYSTEM "K-CONNECT"- BX2811				
REF.	PART #	QTY	DESCRIPTION	CODE
010	77700-07772	1	Engagement lever	671590
020	77700-07773	1	Driveline guard	671591
030	77700-07774	2	Pivot bushing 1/2" x 11/16" lg. PTD	671592
040	77700-07775	2	Pivot bushing 3/4" OD x 1 1/4" lg. PTD	671593
050	77700-07776	2	Bushing 3/4" x 5/8" lg. PTD	671594
060	77700-07777	2	Pivot bushing 3/4" x 15/32" lg. PTD	671595
070	77700-07778	2	Spacer plate 2 holes	671596
080	77700-07779	2	Anti-friction guide 3/8"	671597
090	75599-01115	8	Bolt hex. 1/4"NC x 3/4" lg. gr. 5 PTD	0100003
100	75599-01140	1	Bolt hex. 1/4"NC x 2" lg. gr. 5 PTD	0100010
110	75599-01212	4	Bolt hex. 5/16"NC x 5/8" lg. gr. 5 PTD	0100017
120	75599-01330	4	Bolt hex. 3/8"NC x 1 1/2" lg. gr. 5 PTD	0100040
130	75599-01340	2	Bolt hex. 3/8"NC x 2" lg. gr. 5 PTD	0100042
140	77700-02236	1	Allen set screw 3/8"NC x 1/4" lg, gr. 5, black	0500030
150	77700-04311	4	Allen socket head cap screw 3/8 NC x 1 1/4" PTD	0800048
160	75599-31013	4	Nut hex. 3/8"NC PTD	0900003
170	75599-31913	2	Nut hex. nylon insert 3/8"NC PTD	1000006
180	70060-02441	9	Nut stover 1/4"NC PTD	1100001
190	70060-04442	4	Nut stover 3/8"NC PTD	1100003
200	75599-33013	4	Lockwasher 3/8" PTD	1200004
210	75599-32012	4	Flat washer 5/16" PTD	1400003
220	70060-01942	4	Flat washer 10mm PTD	1400019
230	77700-07781	2	Tension spring 0.781" x 0.142" wire x 5" lg.	2200049
240	70060-02699	2	Flange bearing 1"	4300054
250	77700-02662	4	Allen set screw 1/4"NC x 1/4" lg. gr. 5 black (incl. in 70060-02699)	0500002
260	70060-00940	2	Grease fitting 1/4"NF (incl. in 70060-02699)	654106
270	77700-04147	2	Shoulder bushing Ø5/8" OD x Ø1/2" ID x 5/8" lg	4300102
280	77700-05845	2	Bushing 5/8" OD x 1/2" ID x 1/2" lg plastic.	4300122
290	70060-02186	1	Fixed driveline, 07E series, 37 3/8" lg.	4700049
300	77700-03436	1	Driveline – female section 07E series, 5 15/16" lg.	4700241
310	77700-06667	1	Driveline – male section 07E series, 7 3/8" lg.	4700318
320	77700-07785	1	Output shaft 1" x 13 1/2" lg.	4700322
330	70060-00928	1	Key 1/4" x 1/4" x 1" lg.	655379
340	77700-04138	1	Connection support ass'y (includes #350 to 420)	670117
350	75599-01230	3	Bolt hex. 5/16"NC x 1 1/2" lg. gr. 5 PTD (incl. in 77700-04138)	0100021
360	77700-04136	1	Bolt hex. 5/16"NC x 1 3/4" lg. gr. 5 PTD (incl. in 77700-04138)	0100022
370	75599-33012	4	Lockwasher 5/16" PTD (incl. in 77700-04138)	1200003
380	75599-31912	5	Nut nylon insert 5/16"NC PTD (incl. in 77700-04138)	1000005
390	77700-04145	1	Allen button head capscrew 1/4" NC x 3/8" lg. gr. 5 PTD (incl. in 77700-04138)	0800051
400	77700-04178	1	Cable 3/32" x 4 3/16" lg. (incl. in 77700-04138)	2200030
410	70001-00566	2	Bearing 1" int. (incl. in 77700-04138)	663916
420	77700-04150	1	Male automatic clutch shaft 1" PTD (incl. in 77700-04138)	4700246

PARTS

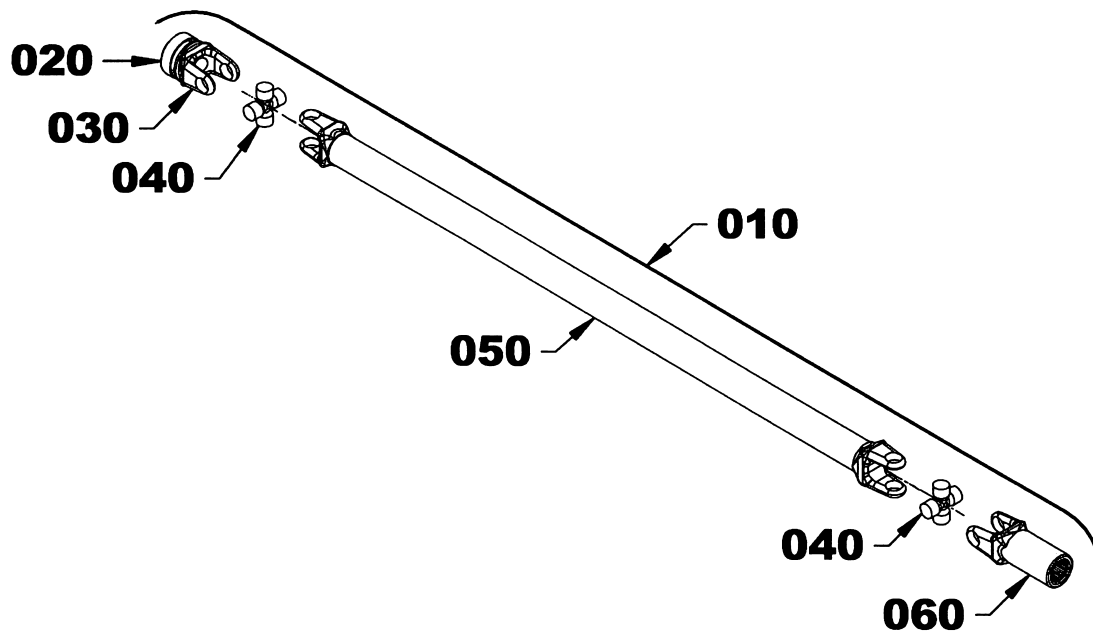
DRIVE SYSTEM "K-CONNECT"- BX2811



PARTS

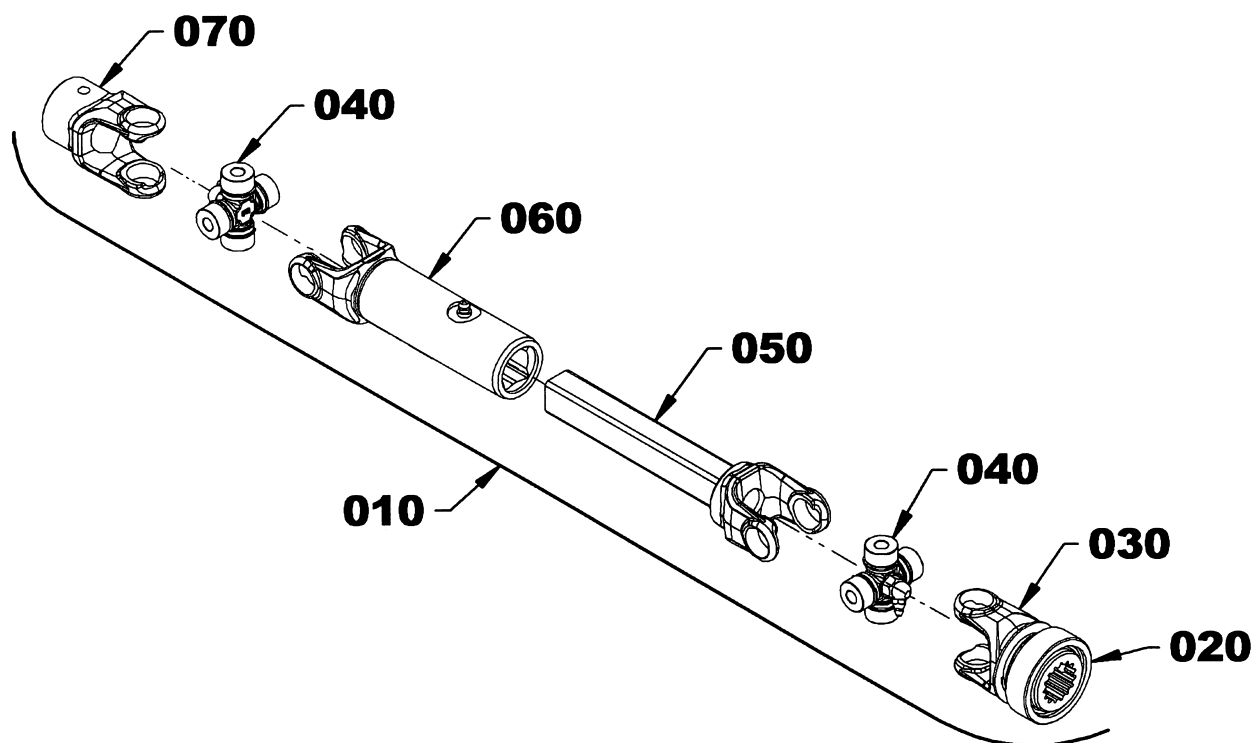
FIXED DRIVELINE 70060-02186

010	70001-02186	1	Fixed driveline, 07E series, 37 3/8"	4700049
020	70060-01478	1	Spring lock repair kit	658113
030	70060-02339	1	Spring lock yoke assembly	4700070
040	70060-02335	2	Journal cross kit	4700066
050	70060-02338	1	Yoke and shaft ass'y 37 1/4" lg C/C	4700069
060	70060-02337	1	Yoke for splined shaft	4700068



PARTS

DRIVELINE 77700-06666 (INCLUDES 77700-03436 & 77700-06667)				
010	77700-06666	1	Driveline assembly	4700317
020	70060-01478	1	Spring lock repair kit	658113
030	70060-02334	1	Spring lock yoke	665810
040	70060-02335	2	Journal cross kit	4700066
050	77700-03435	1	Male shaft and yoke	4700240
060	77700-03437	1	Female shaft and yoke	4700242
070	70060-02348	1	Yoke	4700072









TORQUE SPECIFICATION TABLE

GENERAL SPECIFICATION TABLE

USE THE FOLLOWING TORQUES WHEN SPECIAL TORQUES ARE NOT GIVEN

Note: These values apply fasteners as received from supplier dry, or when lubricated with normal engine oil. They do not apply if special graphited or moly sulphide greases or other extreme pressure lubricants are used. These values apply to dry conditions; under lubricated conditions reduce by 25% the torques in this table.

BOULON HEAD IDENTIFICATION

INCHES Boulon Size	 Grade 2		 Grade 5		 Grade 8		METRIC Boulon Size	 Class 5.8		 Class 8.8		 Class 10.9	
	in-tpi ¹	N-m ²	lbs-ft ³	N-m	lbs-ft	N-m		lbs-ft	mm,pitch ⁴	N-m	lbs-ft	N-m	lbs-ft
1/4" – 20NC	7.4	5.6	11	8	16	12	M 5 X 0.8	4	3	6	5	9	7
1/4" – 28NF	8.5	6	13	10	18	14	M 6 X 1	7	5	11	8	15	11
5/16" – 18NC	15	11	24	17	33	25	M 8 X 1.25	17	12	26	19	36	27
5/16" – 24NF	17	13	26	19	37	27	M 8 X 1	18	13	28	21	39	29
3/8" – 16NC	27	20	42	31	59	44	M10 X 1.5	33	24	52	39	72	53
3/8" – 24NF	31	22	47	35	67	49	M10 X 0.75	39	29	61	45	85	62
7/16" – 14NC	43	32	67	49	95	70	M12 X 1.75	58	42	91	67	125	93
7/16" – 20NF	49	36	75	55	105	78	M12 X 1.5	60	44	95	70	130	97
1/2" – 13NC	66	49	105	76	145	105	M12 X 1	90	66	105	77	145	105
1/2" – 20NF	75	55	115	85	165	120	M14 X 2	92	68	145	105	200	150
9/16" – 12NC	95	70	150	110	210	155	M14 X 1.5	99	73	155	115	215	160
9/16" – 18NF	105	79	165	120	235	170	M16 X 2	145	105	225	165	315	230
5/8" – 11NC	130	97	205	150	285	210	M16 X 1.5	155	115	240	180	335	245
5/8" – 18NF	150	110	230	170	325	240	M18 X 2.5	195	145	310	230	405	300
3/4" – 10NC	235	170	360	265	510	375	M18 X 1.5	220	165	350	260	485	355
3/4" – 16NF	260	190	405	295	570	420	M20 X 2.5	280	205	440	325	610	450
7/8" – 9NC	225	165	585	430	820	605	M20 X 1.5	310	230	650	480	900	665
7/8" – 14NF	250	185	640	475	905	670	M24 X 3	480	355	760	560	1050	780
1" – 8NC	340	250	875	645	1230	910	M24 X 2	525	390	830	610	1150	845
1" – 12NF	370	275	955	705	1350	995	M30 X 3.5	960	705	1510	1120	2100	1550
1 1/8" – 7NC	480	355	1080	795	1750	1290	M30 X 2	1060	785	1680	1240	2320	1710
1 1/8" – 12NF	540	395	1210	890	1960	1440	M36 X 3.5	1730	1270	2650	1950	3660	2700
1 1/4" – 7NC	680	500	1520	1120	2460	1820	M36 X 2	1880	1380	2960	2190	4100	3220
1 1/4" – 12NF	750	555	1680	1240	2730	2010	<div><div>1 in-tpi = nominal thread diameter in inches-threads per inch</div><div>2 N-m = newton-meters</div><div>3 lbs-ft= pounds-foot</div><div>4 mm x pitch = nominal thread diameter in millimeters x thread Pitch</div></div>						
1 3/8" – 6NC	890	655	1990	1470	3230	2380							
1 3/8" – 12NF	1010	745	2270	1670	3680	2710							
1 1/2" – 6NC	1180	870	2640	1950	4290	3160							
1 1/2" – 12NF	1330	980	2970	2190	4820	3560							

*Torque tolerance +0%, -15% of torquing values. Unless otherwise specified use torque values listed above

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