



FIELD KIT

Vermeer Corporation

Environmental
Pella, Iowa 50219 USA

FIELD CAMPAIGN KIT #:	IK004161	DATE:	13 September 2023
For Dealer Reference: Service Bulletin #: SVC2022-157			

Brush Chipper Remote Control Kit

CAMPAIGN TYPE:	Customer Choice/Enhancements
CAMPAIGN CATEGORY:	Environmental

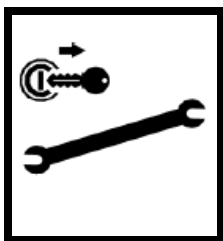
MACHINE/ ATTACHMENT MODEL(S):	SERIAL NUMBERS:		
	Included	Excluded	Kit version
BC1000XL T4F	22325 – 50999	None	IK01
BC1000XL Gas	23771 – 50999	None	IK01
BC1200XL Gas	1457 – 50999	None	IK01
BC1200XL T4i	3365 – 50999	None	IK01
BC1500	6465 – 50999	None	IK01
BC1500	51001 – 999999	None	IK02
BC1800XL	10370 – 50999	None	IK01
BC1800XL	51001 – 999999	None	IK03
BC1800XL	51001 – 999999	None	IK04

Purpose: This kit contains parts and instructions to install the Tree Commander™ remote control to machine models and serial number ranges listed above.

Special tools and conditions:

- None

Shutdown procedure:



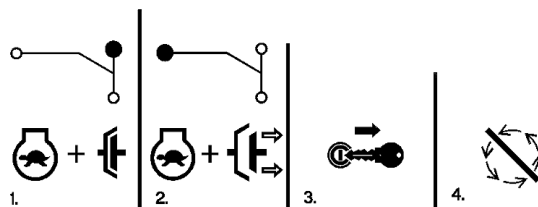
WARNING: Failure to use shutdown procedure can result in unexpected hazard(s). Death or serious injury could result due to entanglement, crushing, cutting, or other hazardous contact. Follow shutdown procedure after operating, before performing any service or maintenance, and before transporting.

NOTICE: For your safety and the safety of others, use the shutdown procedure before working on the machine for any reason, including servicing, cleaning, unclogging, inspecting, or transporting the chipper.

A variation of this procedure may be used if so instructed within this manual, or if an emergency requires it.

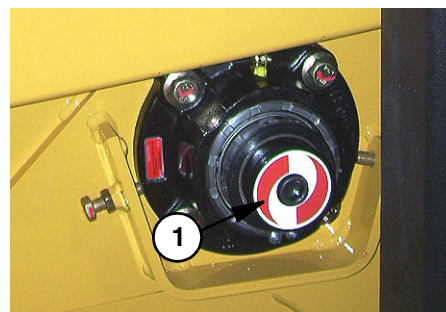
1. Return *Upper Feed Control Bar* to top **stop** position.
2. Move *Cutter Engage/Throttle Lever* to **engaged/low rpm** position.

NOTICE: Whenever practical and consistent with good safety practice, run engine without load for a few minutes before shutting it off. This allows engine temperatures to decrease and equalize, which will increase engine life.



3. Wait for cutter drum to slow.
4. Move *Cutter Engage/Throttle Lever* to **disengaged/low rpm** position.
5. If so equipped, shut off remote control if in use.
6. Turn ignition key to **off** position.
7. Wait for cutter drum and belt to stop.

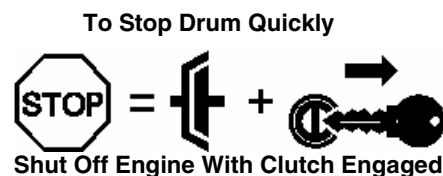
NOTICE: Cutter drum rotation can be checked by looking at the end of shaft (1) on left side of cutter wheel housing. The cutter drum will continue to turn for a short time after the engine has stopped.



8. Remove ignition key.
9. Close and latch feed table.

Quick stop procedure

1. Turn ignition to **off** position while cutter drum clutch is still engaged.
2. Wait for cutter drum and belt to stop.
3. Move *Cutter Engage/Throttle Lever* to **disengaged/low rpm** position.
4. Remove ignition key.



Reset remote control engine stop (option)

If Engine Stop Button on remote control is pushed during operation:

NOTICE: Use of remote control *Engine Stop Button* will trigger fault codes to show on engine information display. Cycling ignition key will clear fault codes.

1. Turn ignition key to **off** position.
2. If applicable, remove or correct the cause for stopping the machine.
3. Refer to Starting Procedure. Select Remote Control mode at *Remote Control/Console Selector Switch*. Refer to Remote Control/Selector Switch (Option) in the operator's manual.

BC1000XL and BC1200XL

1. Return *Upper Feed Control Bar* to top **stop** position.
2. Place *Throttle/Clutch Lever* to **low/engaged** position.
3. Wait for the cutter drum to slow.
4. Place *Cutter Engage/Throttle Lever* in the **disengaged/low** position.
5. Turn ignition key to **off** position.
6. Wait for the cutter drum and belt to stop.
7. Shut off engine and remove key.
8. Close and latch feed table.

BC1500 and BC1800XL

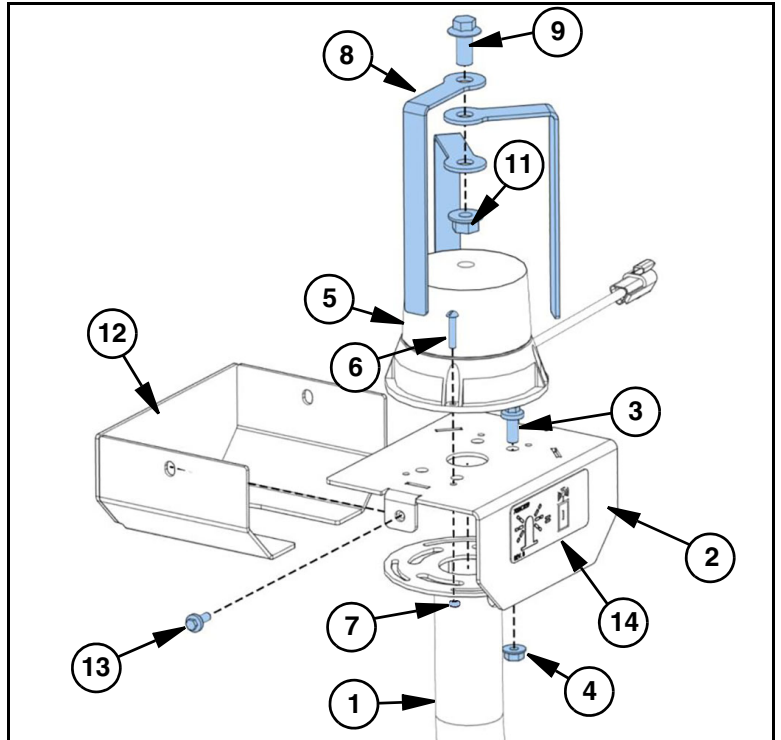
1. Return *Upper Feed Control Bar* to **stop** position.
2. Place *Throttle Switch* in **low rpm**.
3. Wait for cutter drum slow.
4. Move *Clutch/Throttle Lever* to **disengaged/low rpm** position.
5. Shut off engine and remove key.
6. Wait for cutter drum and belt to stop.
7. Close and latch feed table.



Unless indicated, new parts from kit have callouts with numbers. Callouts with letters indicate existing parts or general items.

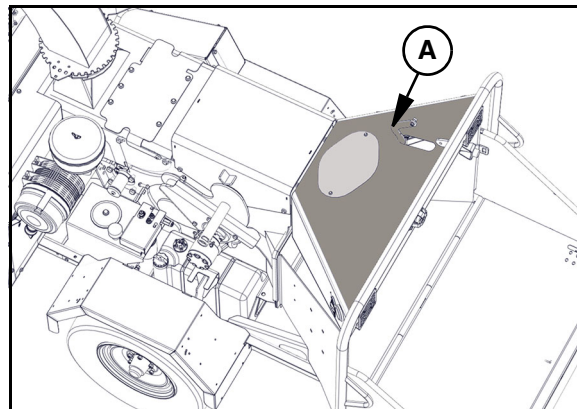
Sub assembly: beacon light

1. Install beacon mount weldment (1) to beacon guard weldment (2) using screws (3) and nuts (4).
2. Install amber light (5) to beacon guard weldment (2) using bolts (6) and nuts (7).
3. Install guards (8) to beacon guard weldment (2) using bolts (9) and nuts (11).
4. Install cover (12) to beacon guard weldment (2) using screws (13).
5. Install label (14) to beacon guard weldment (2).



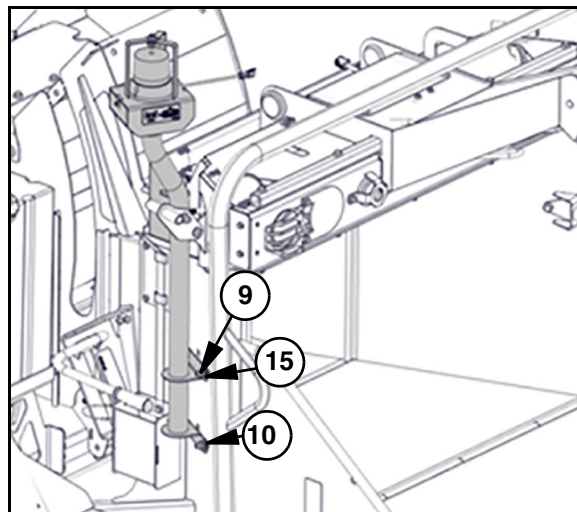
Beacon light installation:

1. Disconnect negative battery cable.
2. Remove right rear shield cover **(A)**.



BC1000XL and BC1200XL:

3. Attach beacon to left-side infeed housing using four carriage bolts **(10)**, washers **(15)**, and nuts **(11)**. Carriage bolts are inserted from inside the infeed housing.



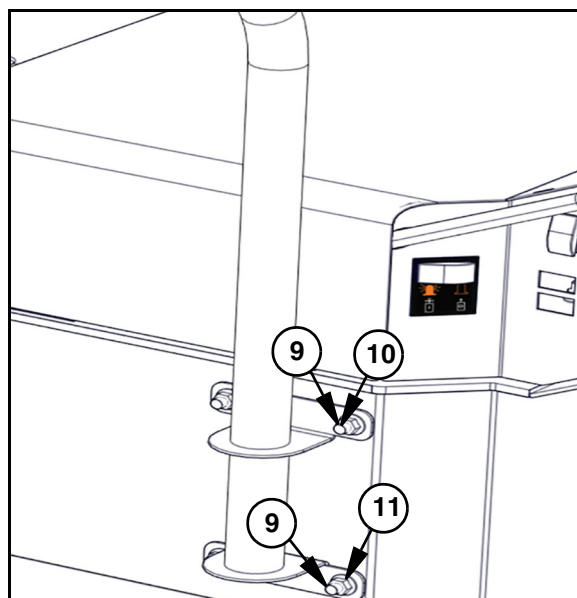
BC1500:

4. Attach beacon to left-side infeed housing using four screws **(9)** and nuts **(11)**. Screws are inserted from inside the infeed housing.

BC1800XL:

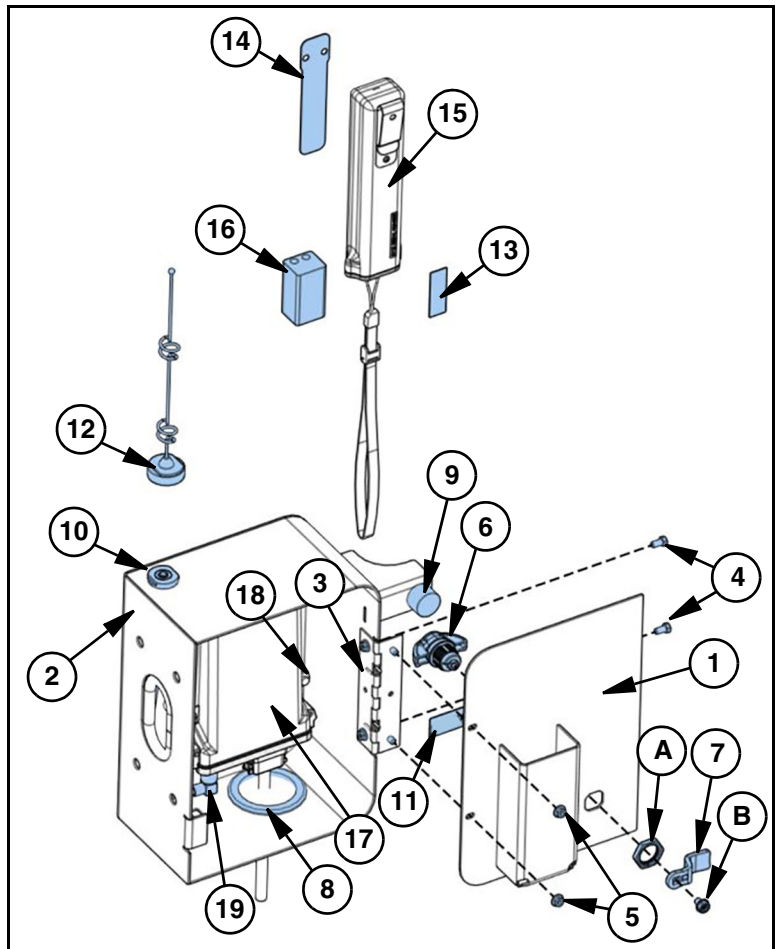
5. Right hand controls use screws **(9)** on outside of infeed housing to attach beacon to the left side of machine.
6. Left hand controls use screws **(9)** on outside of infeed housing to attach beacon to the Right side of machine.

Beacon is attached to opposite side of the machine controls.



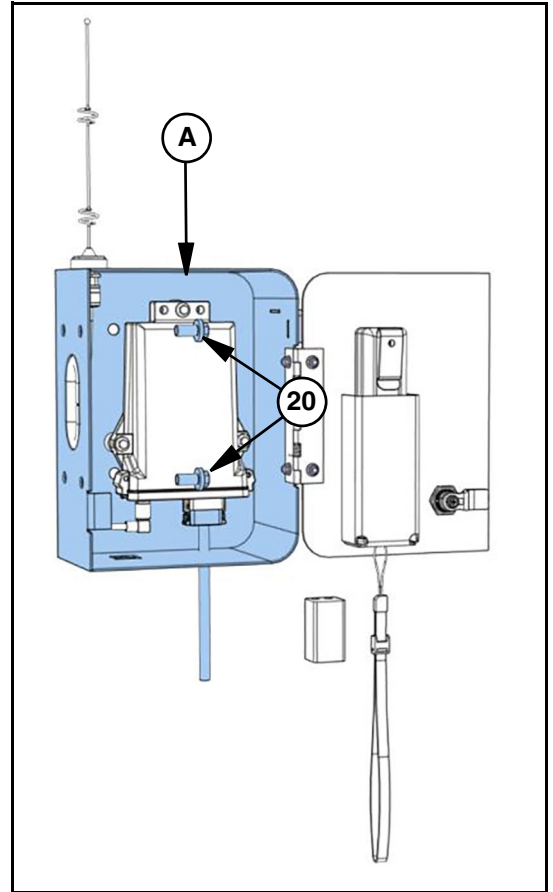
Sub assembly: control box

1. Install box door (1) to box (2) using hinge (3). Secure with screws (4) and nuts (5).
2. Install knob (6) to box door (1) using hex nut (A), grip (7) and screw (B).
3. Install grommet (8), sandwich mount (9), antenna base (10) and decal (11) to box (2) base.
4. Install antenna (12) to antenna base (10).
5. Install label (13) and decal (14) to remote (15).
6. Install remote assembly and battery holder (16) to remote holder on box door (1).
7. Install transceiver base (17) using screws (18) and plug in cable (19).



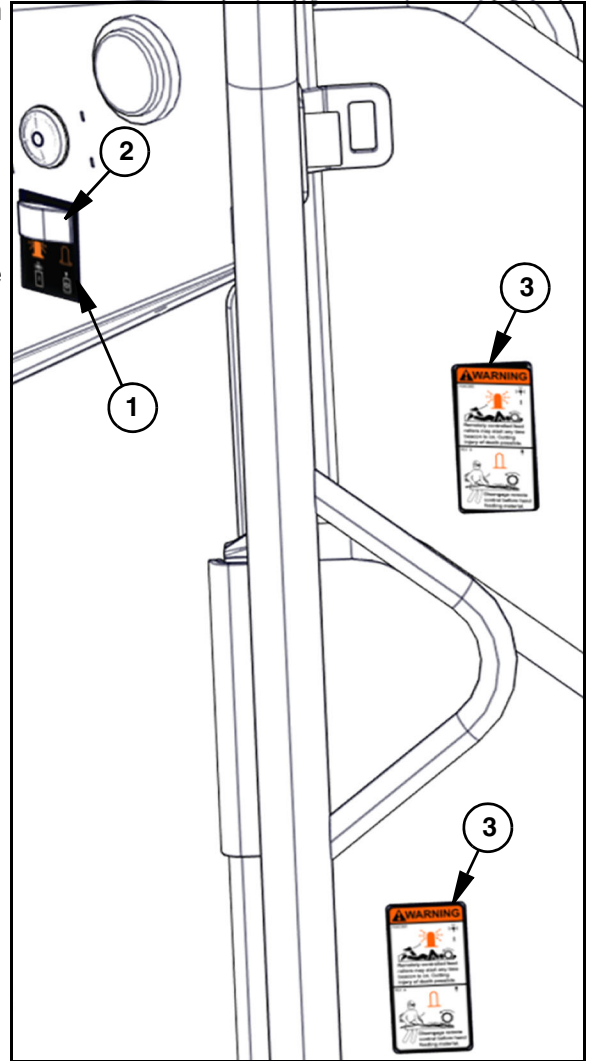
Control box installation:

1. Attach pre-assembled remote box assembly **(A)** to right side of engine enclosure with four screws **(20)**.
2. Connect chipper remote option harness to universal transceiver base assembly.

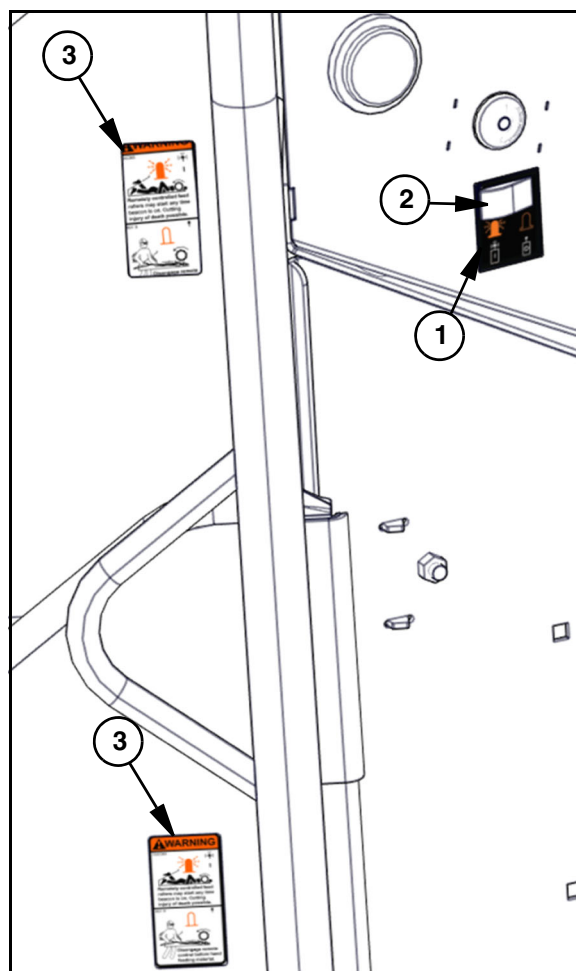


Switch installation:

1. Remove rocker switch plug below the hold-to-run button on both sides of machine.
2. Attach remote indicator decal (1) to left side of machine below the hold-to-run button around the rectangular hole.
3. Attach switch (2) to left side of machine and plug into chipper remote option harness.
4. Attach the four remote disengage warning decals (3) to the infeed; two inside and two outside.

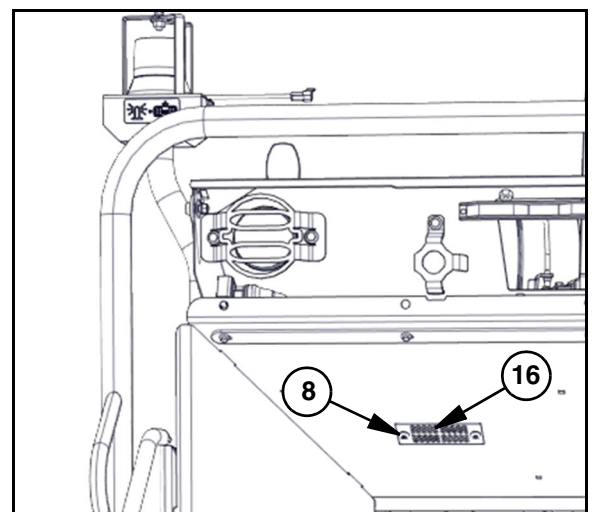
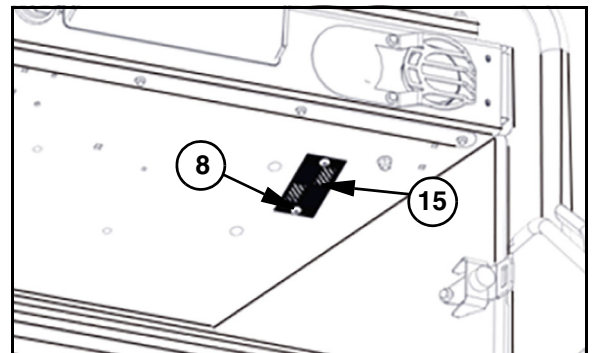
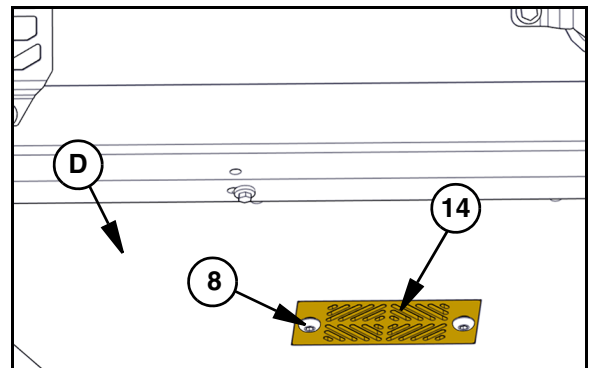
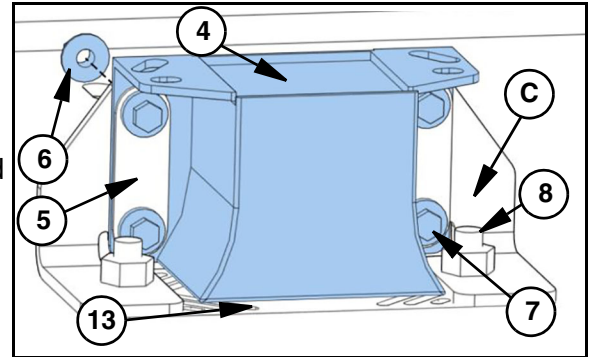


5. Attach remote indicator decal (1) to right side of machine below the hold to run button around the rectangular hole.
6. Attach switch (2) to the right side of the machine and plug into chipper remote option harness.
7. Attach remote disengage warning decal (3) as shown on outside right and inside left of machine.



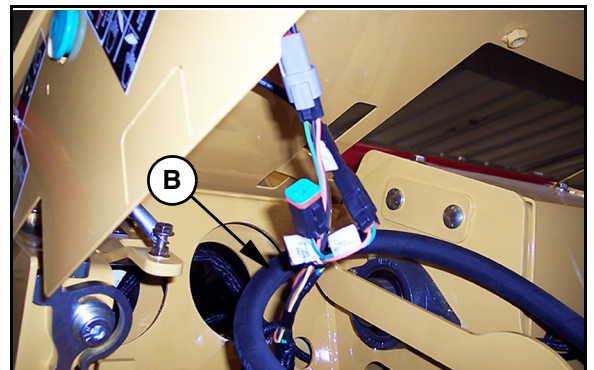
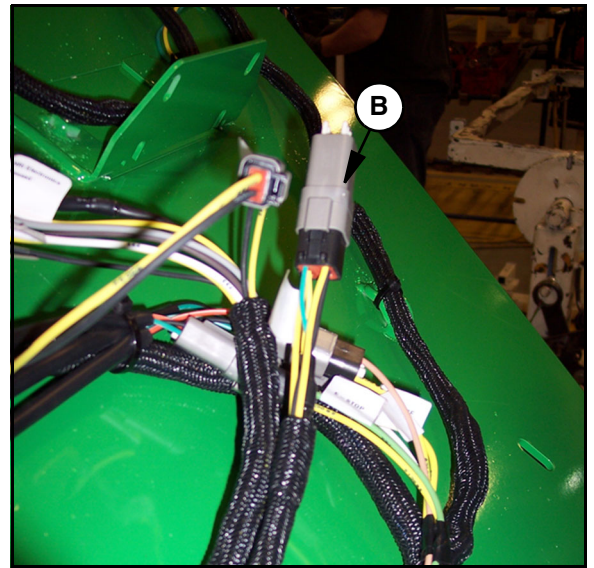
Horn installation:

1. Attach remote horn cover plate **(13)**, **(14)**, **(15)** and **(16)** onto infeed top plate **(D)** with two screws **(8)**. Discard any unused horn cover plates.
2. Attach horn assembly **(4)** to the mount plate weldment **(C)** on chute top with two horn brackets **(5)**, four screws **(7)** and four nuts **(6)**.



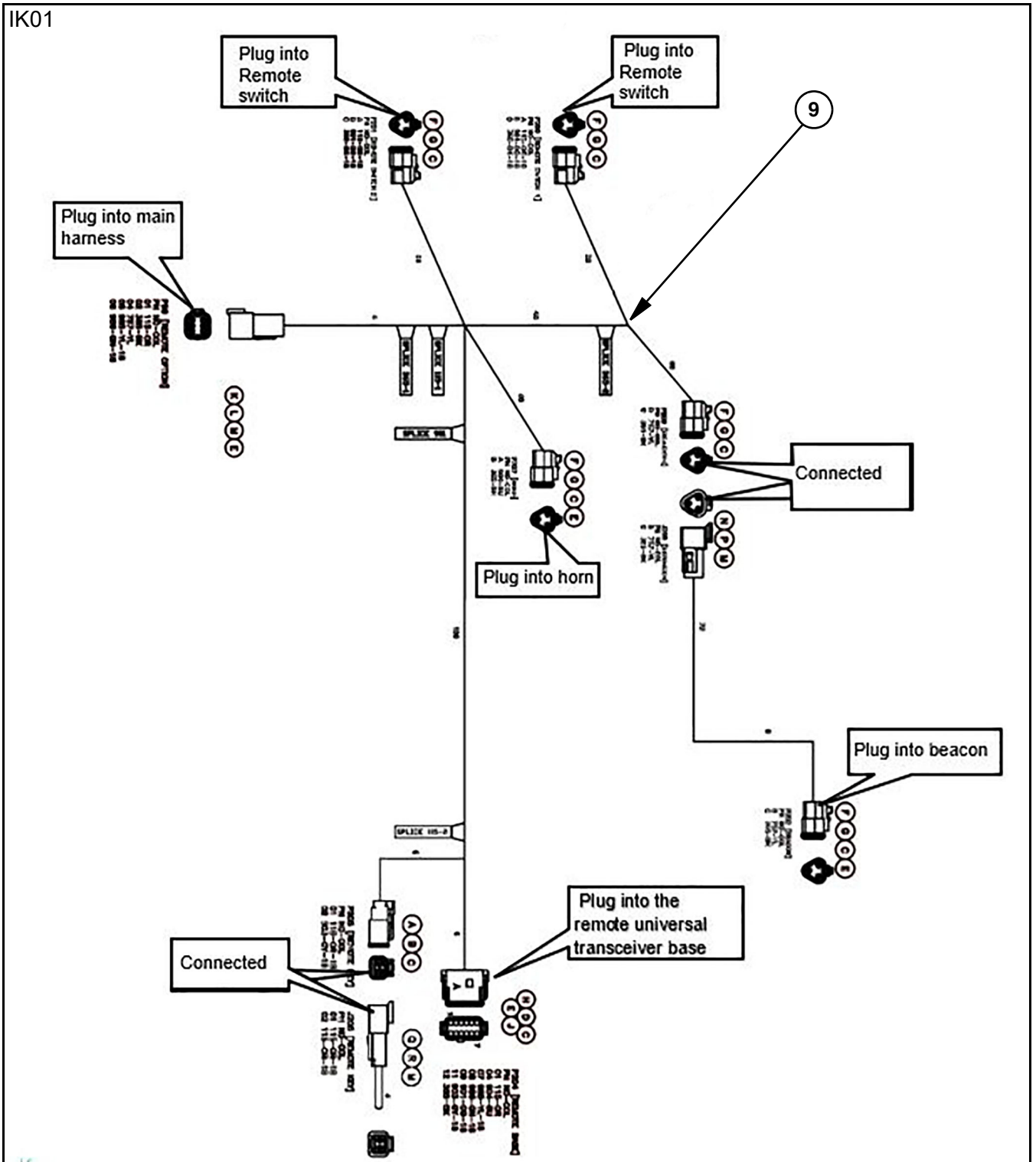
3. Install chipper remote option harness **(9)** for IK01, **(10)** IK02, **(11)** for IK03 and **(12)** for IK04 connecting to the main harness **(B)** and following the rear harness. Make sure to secure/tie down the harness.

The connection point is on the machine's main harness (location varies slightly by machine). Use the same tie-off points that are currently used for the rear harness.

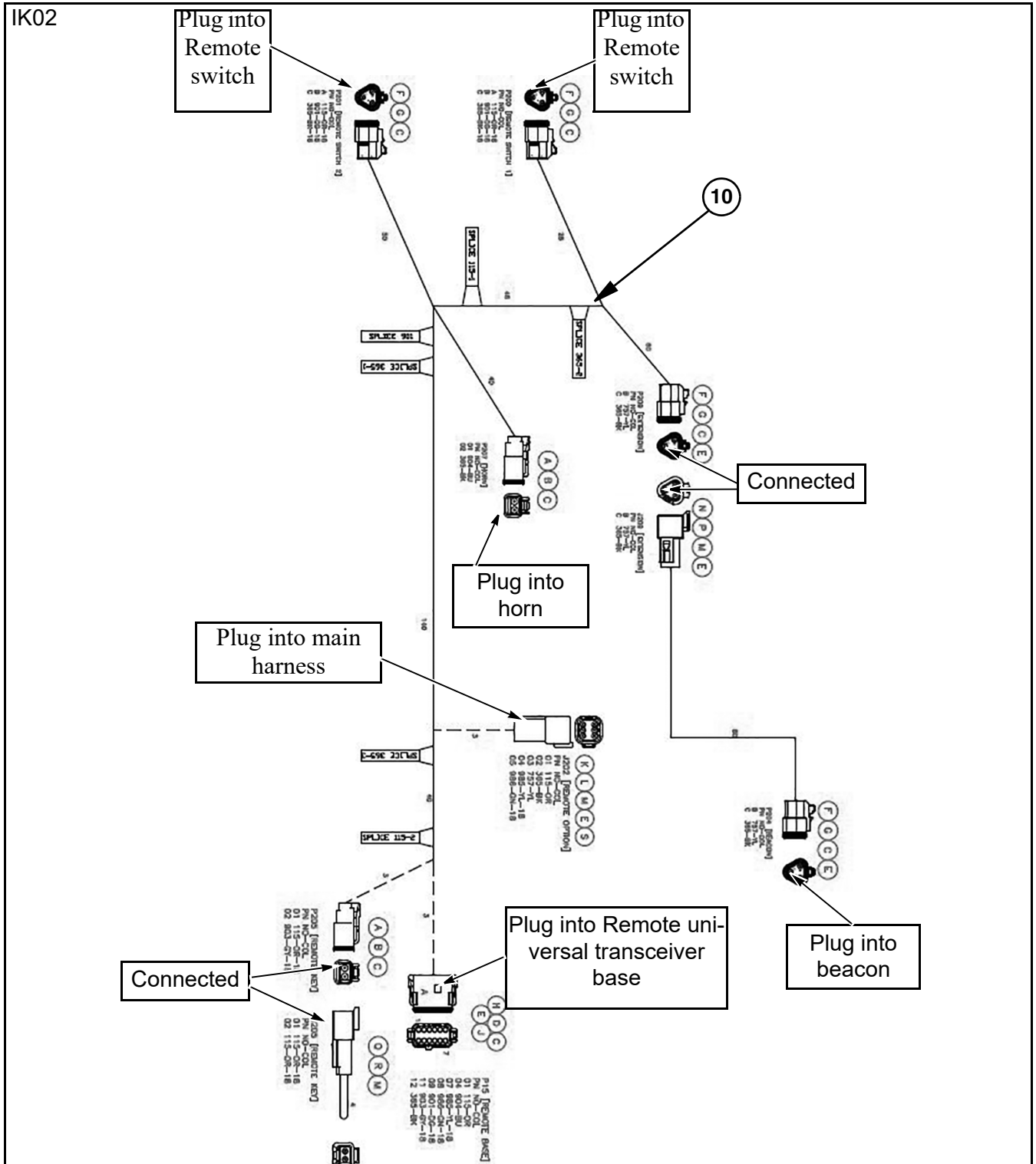


4. Remove Figures 1, 2, and 3. Provide to unit owner to place with existing Parts Manual by attaching pages to the customer's copy of the invoice or placing the pages in the unit's manual storage box.

IK01



IK02



The diagram illustrates the wiring harness for the IK04 vehicle, showing the main harness and various components connected to it. The main harness is a central line with several branches. Key components and their connections are labeled:

- Plug into beacon:** A callout pointing to a component labeled "P15 [REMOTE BASE]" with a list of part numbers: P15 NO-COL, 01 115-CR, 02 115-CR, 03 115-CR, 04 115-CR, 05 115-CR, 06 115-CR, 07 115-CR, 08 115-CR, 09 115-CR, 10 115-CR, 11 115-CR, 12 115-CR.
- Plug into Remote switch:** A callout pointing to a component labeled "P16 [REMOTE SWITCH 1]" with a list of part numbers: P16 NO-COL, 01 115-CR, 02 115-CR, 03 115-CR, 04 115-CR, 05 115-CR, 06 115-CR, 07 115-CR, 08 115-CR, 09 115-CR, 10 115-CR, 11 115-CR, 12 115-CR.
- Plug into Remote switch:** A callout pointing to a component labeled "P17 [REMOTE SWITCH 2]" with a list of part numbers: P17 NO-COL, 01 115-CR, 02 115-CR, 03 115-CR, 04 115-CR, 05 115-CR, 06 115-CR, 07 115-CR, 08 115-CR, 09 115-CR, 10 115-CR, 11 115-CR, 12 115-CR.
- Plug into horn:** A callout pointing to a component labeled "P18 [HORN]" with a list of part numbers: P18 NO-COL, 01 115-CR, 02 115-CR, 03 115-CR, 04 115-CR, 05 115-CR, 06 115-CR, 07 115-CR, 08 115-CR, 09 115-CR, 10 115-CR, 11 115-CR, 12 115-CR.
- Plug into Remote uni-versal transceiver base:** A callout pointing to a component labeled "P19 [REMOTE BASE]" with a list of part numbers: P19 NO-COL, 01 115-CR, 02 115-CR, 03 115-CR, 04 115-CR, 05 115-CR, 06 115-CR, 07 115-CR, 08 115-CR, 09 115-CR, 10 115-CR, 11 115-CR, 12 115-CR.
- Plug into main harness:** A callout pointing to a component labeled "P20 [MAIN HARNESS]" with a list of part numbers: P20 NO-COL, 01 115-CR, 02 115-CR, 03 115-CR, 04 115-CR, 05 115-CR, 06 115-CR, 07 115-CR, 08 115-CR, 09 115-CR, 10 115-CR, 11 115-CR, 12 115-CR.
- Connected:** Two callouts pointing to components labeled "P21 [REMOTE SWITCH 1]" and "P22 [REMOTE SWITCH 2]" with lists of part numbers.
- 12:** A circled number 12 pointing to a component labeled "P23 [REMOTE SWITCH 1]" with a list of part numbers: P23 NO-COL, 01 115-CR, 02 115-CR, 03 115-CR, 04 115-CR, 05 115-CR, 06 115-CR, 07 115-CR, 08 115-CR, 09 115-CR, 10 115-CR, 11 115-CR, 12 115-CR.

UNIT OWNER COPY
Insert into parts manual
for future reference.

Figure 1

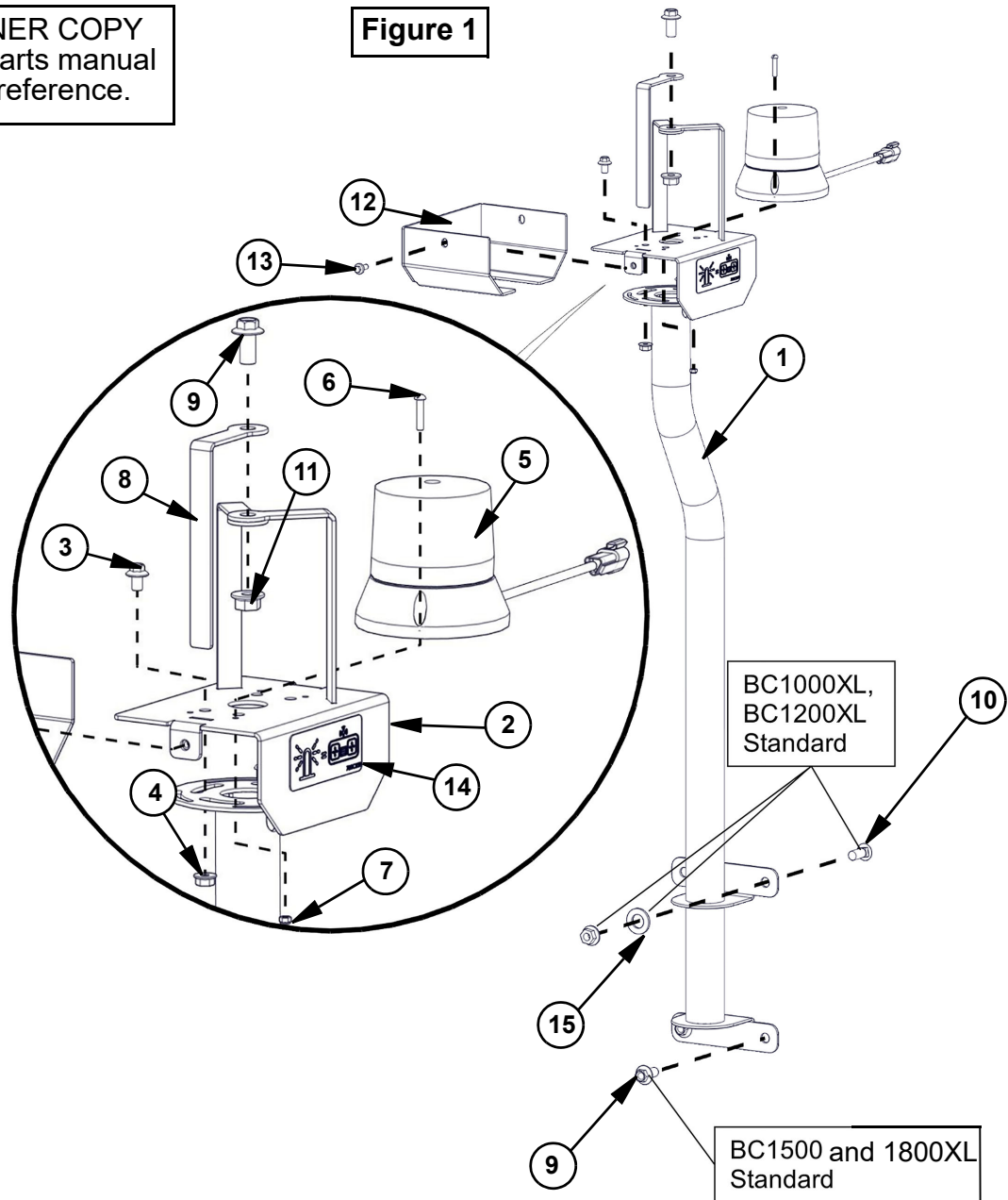


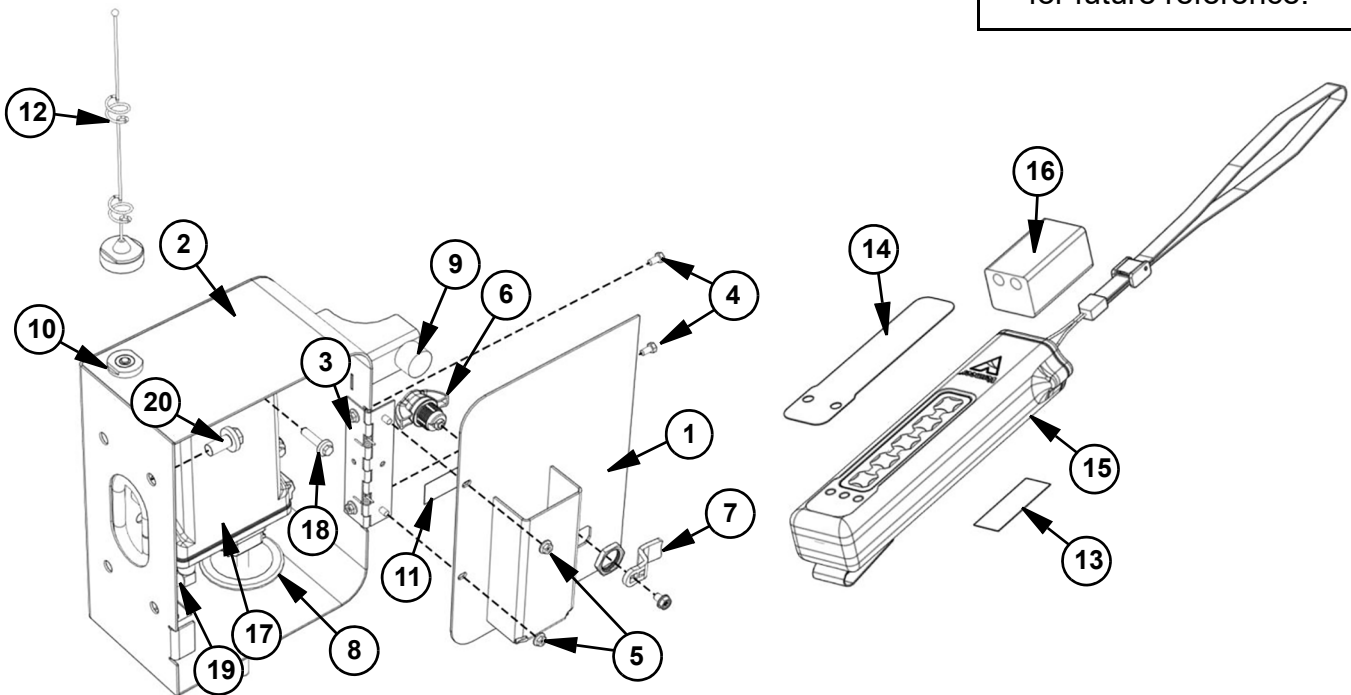
Figure 1 parts list

<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
1	163674953	WELDMENT - BEACON PEDESTAL MOUNT	1
2	163709864	WELDMENT - BEACON GUARD	1
3	180007659	SCREW-HFS-M8-1.25X20-10.9-PFCN	2
4	507085008	NUT-HEXFLGL-LOCK-M8-1.25-10.9	2
5	163647883	LIGHT-STROBE AMBER LED	1
6	1802010	SCREW, MCH-10-24X1.00-GR2-CZ-ROUND-SLTD	2
7	99042001	NUT-NYLOCK-10-24-GR2	2

8	163708901	GUARD-BEACON LONG	3
9	180007669	SCREW-HFS-M12-1.75X25-10.9-PFCN	5
10	506050030	BOLT-CARG,M12-1.75X30,Short Sq.,8.8,ISO8678,FT	4
11	507085012	NUT-HEXFLGL-M12-1.75	5
12	163674956	COVER - PEDESTAL BEACON	1
13	507610016	SCREW-HFS,M6-1.00X16,10.9,D6921,FT	2
14	700IC839	DECAL - RADIO REMOTE BEACON	1
15	506046018	WASHER-FLAT-M18-19.0X34.0-3.0-D125A	4
		Kit includes all items in Figure 1 parts list.	

Figure 2

UNIT OWNER COPY
Insert into parts manual
for future reference.

**Figure 2 parts list**

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	163749487	WELDMENT-REMOTE CONTROL BOX DOOR	1
2	163749490	WELDMENT-REMOTE CONTROL BOX	1
3	163686030	HINGE-SPRING, HOLES ADDED	1
4	180007650	BOLT-CARG, M6-1.00X16 SHORTSQ.0, 8.8, YZ, ISO 8678, FT.	4
5	507085005	NUT-HEXFLGL-.25-20-GR2-YZ	4
6	163642892	CAM-LATCH LOCKABLE WING KNOB	1
7	163642893	CAM-4MM GRIP	1
8	1865047	GROMMET-2.13IDX2.88OD-1/8GRV.	1
9	93769001	STUD MOUNT	1
10	180008689	MOUNT-ANTENNA THICK BASE	1
11	7000G551	DECAL-TREE COMANDER	1
12	296272382	ANTENNA - 2400MHZ 1/4 WAVE	1
13	296541603	R127 BC PRINTED LABEL	1
14	7000G385	DECAL - R125 BC OVERLAY	1
15	296541602	R127	1
16	296365743	BATTERY HOLDER - 4 "AA", BUMP PLATES	2
17	296541590	ASM - UNIVERSAL TRANSCEIVER BASE B425-A LP	1
18	507610025	SCREW-HFS,M6-1.00X25,10.9,D6921,FT	3
19	1800025211	CABLE - RF 11" MALE TNC TO MALE N	1
20	507612020	SCREW-HFS-M10-1.50X20-10.9-FT	4
		Kit includes all items in Figure 2 parts list.	

UNIT OWNER COPY
Insert into parts manual
for future reference.

Figure 3

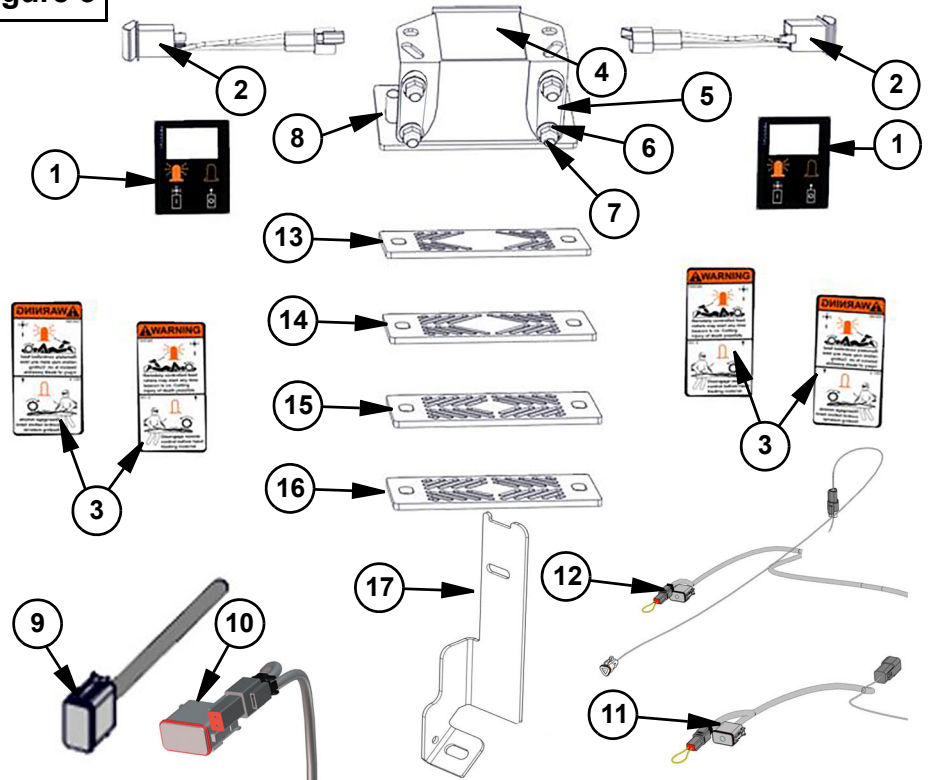


Figure 3 parts list

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	700IG601	DECAL - REMOTE INDICATOR	2
2	257541001	SWITCH -1 POLE MOM-OFF-MOM V8D6S00BAZC000XVR1	2
3	7000C865	DECAL-WARNING, REMOTE DISENGAGE	4
4	296365660	ASM - HORN FORWARD	1
5	163709718	BACKER HORN BRACKET	2
6	507085008	NUT-HXFLNG LOCK,M8-1.25,10.9,YZ,D6927	4
7	507611020	SCREW-HFS,M8-1.25X20,10.9,YZ,D6921,FT	4
8	163631725	SCREW-SBHCS-M10-1.50X25-10.9-YZ	2
9	163673312	HARNESS CHIPPER REMOTE OPTION (IK01)	1
10	163772558	HARNESS CHIPPER REMOTE OPTION (IK02)	1
11	163772542	HARNESS CHIPPER REMOTE OPTION (IK03)	1
12	163772555	HARNESS CHIPPER REMOTE OPTION (IK04)	1
13	163674990	PLATE-BC REMOTE HORN COVER-27% (BC1200XL Only)	1
14	163674991	PLATE-BC REMOTE HORN COVER-38% (BC1500 Only)	1
15	163674993	PLATE-BC REMOTE HORN COVER-47% (BC1000XL Only)	1
16	163674989	PLATE-BC REMOTE HORN COVER-15% (BC1800XL Only)	1
17	163724448	PLATE - REMOTE MOUNT	1
		Kit includes all items in Figure 3 parts list.	