



B01 & B03 INSTALLATION GUIDE

Your Gazeeka package should contain the following items:

- *Transmit Antenna* - An "Active" antenna, microwave cable assembly and an ISObus, standard or G-Link baler cable (depending on configuration ordered) that attaches to the antenna.
- *Receive Antenna* - A "Passive" antenna.
- *Mounting Brackets* – Four right-angled support brackets, two for the right-hand side and two for the left-hand side. There are four M10 x 120mm hex head bolts, M10x50x50x6 square washer, M10 flat washers and M10 Nyloc nuts for each side.
- *Antenna Protection Bars* - Two antenna protection bars with M8 hex head bolts, spring and flat washers.
- *Bolts* – Two sets of M10 x 25mm hex head bolts with M10 nuts, spring and flat washers.
- *Cable Ties* - A quantity of large and medium cable ties.
- *Owner's Manual & Quick Reference Card*.

1. Some Hesston (MF) 2100 series balers and all 2200 serial balers already have the mounting holes for the Gazeeka installed by the factory. If so, jump to point 8.
2. Mark both sides of the rear side of the baler frame at the midpoint of the bale height ($\approx 455\text{mm}$ for a 3' bale). Place the template up against the baler frame with the hole in the middle of the template in line with the bale center line you marked. Now you may have to move the template out a little to make sure it clears any weld fillets and you may have to move it up a little as some balers have a bolt on the front side of the baler frame where you would be drilling the holes for the microwave antenna brackets.
3. Mark the hole centres with a centre punch. Repeat this for both sides of the baler.
4. Using a setsquare or other suitable system, measure and centre punch the positions of the holes on the front side of the baler frame. You can mark one hole, and then use the template to determine the second hole position.
5. Some balers have electrical wiring going through the rear baler frame to which you are attaching the microwave antenna. Please make sure you do not damage this wiring in the process of mounting the antennas.
6. Drill these holes using a pilot drill say 3mm (1/8"). Then drill out with a 10.5mm drill.

7. Use 2" x 2" x 1/4" square washers provided on the opposite side to the brackets to prevent crushing in the square hollow section of the baler frame.
8. Secure the right-angled top two brackets in place, using a spirit level to get them horizontal (#1). Tighten these bolts up. Note there are two types of brackets so make sure you use the appropriate bracket. The flange of the brackets will be at the top for the top bracket and at the bottom for the bottom bracket. This is done to minimize the chances of interference to the microwave signal.
9. Secure the right-angled bottom two brackets in place just tight enough to be able to move them around by hand (#2). All of the bracket bolts that go through the baler frame require Nyloc nuts.
10. This step is only applicable to balers using tailgate bale scales. Attach the 4 extension arms (870-M64-R02) to the right-angled brackets, using the eight M10 x25 hex head bolts (#3,4). This ensures that the metal arm for the tailgate scale is not interfering Gazeeka. The angled lip should be at the top for the top arm, the bottom for the bottom arm and facing out away from the baler, this will ensure that the antennae can be mounted inside the bracket arms as per below.
11. Hang the two antennas (active on the left side) on the top brackets using the M10 x 25 hex head bolts provided (do not fully tighten at this stage). Move the bottom bracket around to line up with the bottom holes in the antenna and secure this in place with the remaining screws (#5). Now tighten up the four antenna screws on each antenna and then tighten up the bottom bracket bolts.



12. Run the flexible conduit that contains the microwave cable over the top of the rear baler frame and connect it into the antennae (#6). You may need an adjustable wrench to tighten the conduit nut inside the antennae. Secure the conduit in place using large cable ties around the baler frame. Connect the microwave cable to the SMA connector inside each antenna, taking care as per the special note about the microwave cable in the Owner's Manual (**section 2.2**).

13. In the unlikely event that the spray from the spray can is blocked by the tail gate support chains, you may need to move them. If this is so, take out the two M6 screws holding the spray units in place and move them up one hole pitch (approximately 70mm). You may need to loosen the cable gland and even take the cover off of the antenna to make sure the cable to the spray solenoids reaches without being stressed.
14. Using tin snips or a sharp knife cut the rubber flaps to allow the chains to pass through (about 45mm diameter + horizontal cut in to the hole).
15. Fasten a protection bar to each antenna support frame using the hex head screws supplied. The holes in these protection bars are tapped. Note the extended end goes up on both sides (#7).
16. Install the baler cable from the active antenna (#8) to the tractor cabin where the Gazeeka touchscreen is to be installed. When running the cable through the baler, make sure that it is clear of any moving parts, minimising the chance of the cable being damaged during operation. It is best to follow existing cables where possible.
17. Install the Gazeeka touchscreen in the preferred position with the RAM mount and fasteners provided.
18. Refer to the Commissioning/Setup section of the Owner's Manual (**Section 2.3**).
19. For ISObus loom installation, continue to next page.

ISOBUS LOOM INSTALLATION (ONLY APPLICABLE FOR 870i UNITS)

1. Run the ISOBus cable from the active antenna (#1) to the ISOBus terminator under the rear (#2), right hand side of the baler (where the bale scale box is). Remove the terminator from the ISOBus cable (C47) and connect it to the ISOBus cable stub at the Gazeeka active antenna connection point (**this is important as without this terminator your baler may not work properly**). Plug in the two connectors on the Gazeeka cable at the points pictured below (C47 and C172). Secure the cable such that it will not make contact with any moving parts of the baler.



2. Cable tie up the “stub” lead with the ISOBus terminator in its new position such that the top of the terminator is up and the cable entry lower to prevent the ingress of moisture.
3. Do not put the spray cans in at this stage.
4. **Note:** In some cases with Hesston balers the tail gate has bounced around too much and caused the chains to damage the Gazeeka instrument. The cause of this has typically been at the pivot point of the tailgate where either the friction washers have been put in the wrong way round or the nuts have not been torqued up properly (at least 100 foot pounds – 135Nm).
5. Refer to the Commissioning/Setup section of the Owner’s Manual (**section 2.3**).