

ELECTRO

BROADCASTER™

A simple, reliable
and accurate spreader for:

- Slug pellets
- Grass seed
- Fertiliser
- Trace elements
- Herbicide granules
- Rape seed
- Stubble turnips
- Small seeds
- Game cover



EBC-TFL80 range (6 models: 85 and 130 litre)
EBC-TFL100 range (4 models: 85 and 130 litre)



Note: EBC-BD12 (Game Feeder) models are not covered by this document but can be found on line at Logictoday.co.uk

The EBC-TFL range of multi-purpose spreaders is designed to broadcast a wide range of granular substances, including slug pellets, fertiliser, large and small seeds and trace element dressings. Each unit is constructed strongly from corrosion-resistant materials, ensuring long operational life and high performance. The all-welded frame is galvanised for long life; the hopper is made from polyethylene; the combined metering plate and bias adjustment system is made from stainless steel.

Hopper sizes

The range includes two hopper sizes: 85 litres and 130 litres. The 85 litre hopper is ideal for mounting on an ATV, where high operational speed and low ground pressure can provide very high work rates. The 130 litre hopper gives extra capacity when used on larger vehicles such as UTVs, tractors and self-propelled sprayers. All hoppers are translucent which allows product fill levels to be checked at a glance and come with an outlet drain cap which provides a quick and simple method of emptying unused material from the hopper.

Motor sizes

The range has two motor sizes. The EBC-TFL80 range uses a motor with a power demand that is compatible with most ATV electrical systems. The EBC-TFL100 range uses a significantly up rated motor which is capable of delivering consistently wider spread widths; this range has been designed to suit the electrical systems found on larger vehicles such as tractors or self propelled sprayers and is therefore not recommended for ATV use.

Power requirement

The EBC-TFL range is designed to be powered from the vehicle battery (12 volt):

For Manual (ATV) models a Logic AE500 wiring harness (optional extra) is recommended to provide power to the machine: this includes a simple on/off switch.

All Powered and Powered Synchro models come with all necessary cabling including 3m battery cable, in-cab remote control box and 5m operating cable/socket etc.

Control systems

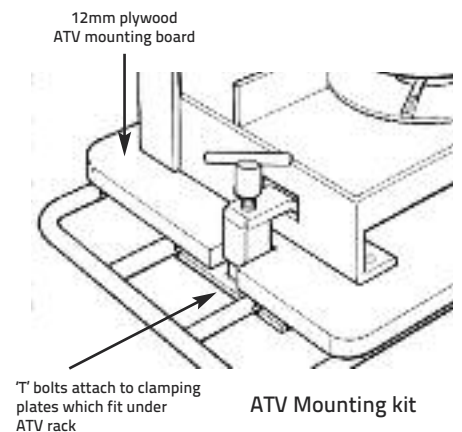
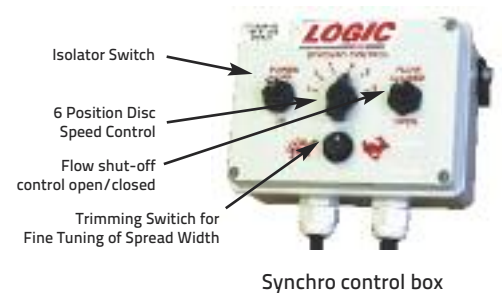
Model	Motor/disc on/off	Flow shut-off control	Disc speed
Manual	Switch (AE500 required)	Manual lever	Fixed
Powered (P)	Switch on supplied control box	Switch on supplied control box	Fixed
Powered Synchro (PS)	Switch on supplied control box	Switch on supplied control box	Variable (selector on control box)

Low-impact delivery system

This system, unique to Logic machines, reduces the impact of the product hitting the high-speed spinning disc. When slug pelleting or spreading fertiliser this minimises 'dusting' (when the product breaks up on impact with the disc). It is also a major benefit when broadcasting seeds.

ATV Mounting kit

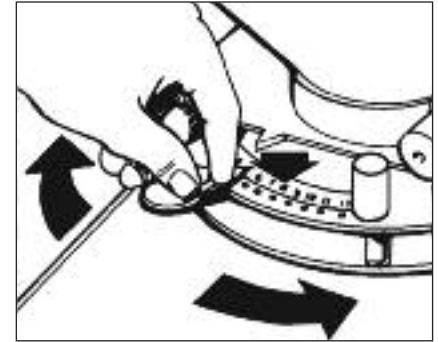
When mounting the Electro Broadcaster onto a tubular ATV rack, a simple, universal ATV mounting kit is available (optional extra) which allows the unit to be rapidly and securely fixed to the carrier using simple 'T' bolts and clamps. This quick-attach system enables the broadcaster to be attached in seconds without requiring tools.



Settings and Operation

Adjusting the flow rate

The unique metering plate mechanism is the key to this reliable, robust and accurate system. The rate of flow is set by adjusting the aperture size. Simply loosen the finger nut and slide the metal pointer to the required setting on the 'Feed' scale. The actual setting on the scale will vary depending upon the product being spread. Clever design of the twin feed apertures allows for large and small products to be successfully handled - even when a very low application rate is required. Some typical settings are shown in the chart below. The Electro Broadcaster can handle a wider range of product types than any other similar system.



Adjusting the bias

The bias setting adjustment is cleverly incorporated into the metering plate. Simply move the bias plate to the setting required for the product being spread. The metal pointer on the bias plate moves along the scale as indicated. As the plate moves, the aperture position is altered relative to the spinning disc, thus compensating for the different characteristics of each type of product. In this way, even spreading can be consistently achieved.



Spreading

The flow shut-off control is opened to begin spreading. This is done using the hand operated lever on manual ATV-mounted models or with the flick of a switch on powered or powered Synchro models. (In the case of Synchro models the correct spread width must be selected before opening the flow control). With Powered/Synchro models the control box can be conveniently mounted in the cab within reach of the driving position so all controls fall easily to hand.

Calibrating the Electro Broadcaster

The operator's manual gives the settings for a variety of well-known product types (copied below). To accurately calibrate your Electro Broadcaster for any product, a calibration chute is available and recommended (optional extra). This allows the material output to be collected and weighed after a timed trial and finely adjusted until you determine the exact scale reading needed to achieve the desired application rate for your chosen product.



FEED SETTINGS	PRODUCT FLOW RATES IN KG/MIN															
	SLUG PELLETS									SEEDS				FERTILISER		TRACE ELEMENTS
	TDS AMBA	HURON	DRAZA FORTE	SLUGGO	SLUXX	DELICIA	LYNX	OSEREX	PESTA	GRASS LEY	CLOVER	OSR / TURNIP	MUSTARD	20-10-10	GRASSTRAC	TES Granules
1											0.2					0.2
2					0.28						0.6	0.4				0.5
3	0.4				0.55	1					1.4	1.2				1.2
4	1.2	1.3	1.4	1.2	1.3	2.1						1.8	0.9			2.4
5	2.2	2.1	2.2	2.3	2.3	0.8	0.8	1	1			2.5	1.9			4
6	3.1	3.2	3.4	3.2	3.1	4	1.8	2.1	2.1			3	2.5	2.9		6
7	4.3	4.6	4.6	4.4	4.8	5.5	2.8	3	3			4.5	3.9	4.7		
8	5.6	6	6.1	5.6	6.8	6.75	3.9	4.3	4.3	1.4				6.7		5.3
9	6.7	7.5	7.5	6.9	8.2	7	5.7	6.1	6.1	2.4				9		6.4
10	7.8	8.6	8.7	7.7	9.3	7.4	6.5	6.7	6.7	3.5				10.1		8.9
11	8.7	10	10.1	8.8	9.8	8	7.1	7.5	7.5	3.9				11.5		10.7
12	9.3	11	11.2	9.5	10.6	8.6	8.6	9.3	9.3	4.6				13.3		11.5
BIAS SETTING	6	6	6	6	6	6	6	6	6	12	6	6	6	12	6	5

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Model	Capacity (litres)	Control system	Spread width		Suitable vehicle
			Slug Pellets	Grass seed	
EBC-TFL80	85	Manual	12 - 24m	Up to 6m	ATV only
EBC-TFL80L	130	Manual	12 - 24m	Up to 6m	ATV only
EBC-TFL80P	85	Powered	12 - 24m	Up to 6m	ATV, UTV, 4x4, tractor, self-propelled sprayer
EBC-TFL80PL	130	Powered	12 - 24m	Up to 6m	ATV, UTV, 4x4, tractor, self-propelled sprayer
EBC-TFL80PS	85	Powered - variable speed	6 settings up to 24m	6 settings up to 6m	ATV, UTV, 4x4, tractor, self-propelled sprayer
EBC-TFL80PSL	130	Powered - variable speed	6 settings up to 24m	6 settings up to 6m	ATV, UTV, 4x4, tractor, self-propelled sprayer
EBC-TFL100P	85	Powered	up to 30m	Up to 6m	UTV, 4x4, tractor, self-propelled sprayer
EBC-TFL100PL	130	Powered	up to 30m	Up to 6m	UTV, 4x4, tractor, self-propelled sprayer
EBC-TFL100PS	85	Powered - variable speed	6 settings up to 30m	6 settings up to 6m	UTV, 4x4, tractor, self-propelled sprayer
EBC-TFL100PSL	130	Powered - variable speed	6 settings up to 30m	6 settings up to 6m	UTV, 4x4, tractor, self-propelled sprayer

*PLEASE NOTE: When using an EBC mounted on an ATV always ensure the vehicle you wish to use is capable of handling the weight and any change in centre of gravity



Always ensure the vehicle you intend to use with Logic products is suitable for the task.
Due to continuous development Logic Manufacturing Ltd reserves the right to alter specifications without notice.

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