

## Bravo 21 - BBC Improvements

- Some of these improvements were incorporated in the 21-101 as running changes, and others have been introduced with the 21-102.

Main Area	Part	Improvements	When Implemented
Engine Guard		Standard equipment on the Bravo 21 BBC	21-102

Main Area	Part	Improvements	When Implemented
Upper Handle	Control Panel	Complete control panels made available as spare parts to facilitate easy updating and repair (201179-1)	
	Throttle and BBC lever	Revised material to avoid brittleness	21-101
	Drive Adjustment Knob	Revised plastic knob "locks" more securely to the transmission cable	21-101
	BBC System	New BBC control system introduced from the Bravo 25 mower	21-102
	Drive Cable	New design prevents the kinking of the cable at the bail. Same cable is used on the Bravo 25	21-102
	Bails	End pieces reinforced	21-101

Main Area	Part	Improvements	When Implemented
Handle Tubes	Handle Clamps	Handle clamps in spring steel to improve their clamping force	21-101

Main Area	Part	Improvements	When Implemented
Belt Drive	Transmission Pulley	To slightly slow the mower in hi-gear, the transmission pulley was changed from 73mm to 76mm	21-101
	Belt	Introduction of a new belt from Carlisle (blue) provides improved out of box "pull back" performance (201114-4)	21-102
	Spring	New material in the tension arm return spring as well as an improved shape	21-101

Continued: Bravo 21 – BBC Improvements

Main Area	Part	Improvements	When Implemented
Mower Deck	Rear Handle Brackets	Update kit available for use with older units (996001-1)	
	Rear Handle Brackets	Redesigned handle brackets move the upper handle clamps further apart for improved durability. Similar to Bravo 25	21-101
	Rear Wheels	New wheel design with hard rubber tire (not semi-pneumatic) for improved durability	21-102
	Drive Pin	Early drive pins were too soft. Improved heat treatment introduced. Pins now are much tougher	21-101
	Washer Rear Wheel	A special spring washer was introduced to better hold the rear wheel in place	21-101
	Rubber Skirts	Modified design to avoid moisture build up and improved locking of the two skirts	21-102
	Grass Bag	High Vent grass bag available as a spare part for use in extreme bagging situations, ie Northwest (201201-1)	

Main Area	Part	Improvements	When Implemented
Transmission	Transmission	Several small steps implemented to improve function and durability including changes to ratchet spring, heat treatment on main shaft, and chrome plating to drive shafts. Transmissions with a visible "red" marking are latest version with all improvements.	21-102

Main Area	Part	Improvements	When Implemented
Updates in the Pipeline	Shock Reducing Pulley	Plastic transmission pulley with spring loaded function reduces drive engagement shock	
	Grass Bag	Reinforced rear edge and reinforced handle attachment	