CATTRON

ES52 VARIANTS

Major Features	ES52 (Standard)	ES52 (EI)	ES52 (WI20)	ES52 (FS)	ES52 (FE)	ES52 (MD10)
TG350-MP-CAN-G	Yes	Yes	Yes	Yes	Yes	Yes
Magnetic Pick-up/Alternator Speed Sensing	Yes				Yes	Yes
Energize-to-Stop						
Underspeed Shutdown		Yes				
Preheat	Yes	Yes	Yes	Yes	Yes	
Mid/Post Heat					Yes	
Cool Down Timer		Yes			Yes	
Warm Up Timer	Yes			Yes	Yes	
Pull Coil Control			Yes			Yes
Momentary Start/Stop			Yes			
Photocell Start/Stop						

Detailed Specifications	ES52 (Standard)	ES52 (EI)	ES52 (WI20)	ES52 (FS)	ES52 (FE)	ES52 (MD10)
Stock Code	ES52-0000-12-A-08-LS	ES52EI-00-12-A-08-LS	ES52WI20-12-A-08-LS	ES52FS-00-12-A-08-LS	ES52FE-00-12-A-08-LS	MD10-000-12-B-08-LS
Speed Sensing Ranges	HI & LO	Low only	Low only	Low only	HI & LO	HI & LO
Crank Disconnect Speed	Potentiometer (LO: 12-140Hz; HI: 60-4156Hz	Fixed - 22Hz	Fixed - 22Hz	Fixed - 22Hz	Potentiometer (LO: 12-140Hz; HI: 60-4156Hz	Potentiometer (LO: 12-140Hz; HI: 60-4156Hz
Overspeed	Potentiometer (LO: 44-300Hz; HI: 300-8492Hz	DIP switch selectable (63, 65, 67, 70Hz)	Fixed - 70Hz	X	Potentiometer (LO: 44-300Hz; HI: 300-8492Hz	Potentiometer (LO: 44-300Hz; HI: 300-8492Hz
Oil Verification	ON/OFF with DIP switch	X	X	X	X	X
Loss of Speed while Cranking	ON/OFF with DIP switch	X	X	X	ON/OFF with DIP switch	X
Potentiometers	1. Crank disconnect, 2. Overspeed, 3. Crank/ Rest, 4. Timer	X	X	X	1. Crank disconnect, 2. Overspeed, 3. Warm up, 4. Preheat	1. Overspeed, 2. Crank disconnect
Underspeed Shutdown	X	DIP switch selectable (57, 55, 53, 50Hz)	X	X	X	X

Detailed Specifications	ES52 (Standard)	ES52 (EI)	ES52 (WI20)	ES52 (FS)	ES52 (FE)	ES52 (MD10)
Crank Tries	Selectable 1,2,3,4,5,6 attempts	Selectable 3,5,7,9 attempts	Selectable 4, 5 attempts	Fixed - 3 attempts	Selectable 1,2,3,4,5,6 attempts	X
Crank Time	Potentiometer (4 to 36s)	DIP switch selectable (10, 15s)	DIP switch selectable (15, 20s)	Fixed - 10s	Fixed - 8s	Manual push button cranking, DIP switch selectable (15s cycling or indefinite crank
Crank Rest Time	Potentiometer (4 to 36s)	DIP switch selectable (15, 20s)	DIP switch selectable (15, 20s)	Fixed - 10s	Fixed - 10s	Manual push button cranking, DIP switch selectable (15s cycling or indefinite crank
Timer Output	1. Glow plug (0-32s), 2. Airgate, 3. Choke, 4. Slow (0-256s)	Preheat only - DIP switch selectable (ON=10s, OFF=0s)	Preheat only - DIP switch selectable (0, 5, 10, 15s)	Preheat only - jumper selectable (8, 16s)	Preheat, midheat (2s into each crnak attempt) postheat (DIP switch selectable (1, 5s after engine start up)	Pull coil only
Cool Down Timer	X	DIP switch selectable timer (0, 2, 4, 5.5min)	X	X	DIP switch selectable (0, 3min)	X
Warm Up Timer	Fixed 2min timer with dedicated output	X	X	Fixed 2min timer with dedicated output	Potentiometer (0-155s)	X
Start/Stop Control	Close to Run, Open to Stop	Close to Run, Open to Stop	Close to start, open to stop. Also has momentary (Gnd first input to start, Gnd second input to stop)	Close to Run, Open to Stop	Close to Run, Open to Stop	Manual push button cranking (Gnd first input to start, Gnd second input to stop
Pull Coil Control	X	X	Energizes for 2 sec before each crank attempt	X	X	Energizes for 2 sec before each crank attempt
Lamp Test	Yes	Yes	X	Yes	Yes	Yes

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