



Allison MT Series - Road Test Checklist

Neutral Start	
<input type="checkbox"/>	Confirm the selector lever aligns with the mark indicating each range including N (Neutral)
<input type="checkbox"/>	Confirm proper function of neutral safety switch - starter should only operate when selector lever is in N
Instruments	
<input type="checkbox"/>	Confirm proper function of all instruments associated with the transmission, including the speedometer & transmission oil temperature gauge
Parking Brake	
<input type="checkbox"/>	Confirm proper function of the application and release of the parking brake (retarder models do not use a transmission mounted parking brake)
<input type="checkbox"/>	Confirm the brake is not dragging to heating up while released
<input type="checkbox"/>	Confirm the brake is fully applied before the lever reaches full travel
Power Takeoff (PTO)	
<input type="checkbox"/>	Refer to the PTO owner's manual or the vehicle's manufacturer's instructions to ensure proper function
No-Load Governed Speed	
<input type="checkbox"/>	Confirm the no-load governed speed of the engine
<input type="checkbox"/>	If necessary, adjust the governor to meet the no-load governed speed (spec available through vehicle manufacturer)
Shift Sequence	
<input type="checkbox"/>	Check and record the full-load governed speed of the engine
<input type="checkbox"/>	Subtract 200 from this speed and record that #, this is the desired speed for all automatic upshifts, EXCLUDING:
<input type="checkbox"/>	1-2 upshift in 640, 643, 654CR: should occur at full-load governed speed less 600 rpm
<input type="checkbox"/>	1-2 upshift in 650, 653: manual shift, no adjustment required
<input type="checkbox"/>	2-3 upshift for 650, 653: should occur at full -load governed speed less 600 rpm
While driving the vehicle check the wide-open throttle shift points. If adjustment is needed, refer to the respective MT service manual	
Retarder	
<input type="checkbox"/>	Confirm the retarder responds properly
<input type="checkbox"/>	Confirm the retarder enable switch turns off the retarder
<input type="checkbox"/>	Confirm the retarder only applies at closed throttle
<input type="checkbox"/>	Confirm the retarder temperature indicator increases rapidly when retarder is applied
<input type="checkbox"/>	Confirm the brake lights come on when retarder is applied
Transmission Fluid	
<input type="checkbox"/>	Confirm correct fluid level in N (Neutral)
<input type="checkbox"/>	Confirm there are no leaks

	Warm transmission and perform a "hot" fluid level check. Ensure vehicle is on a flat surface and transmission in N .
	Other Items
	Perform a stall check
	Confirm quality of shift