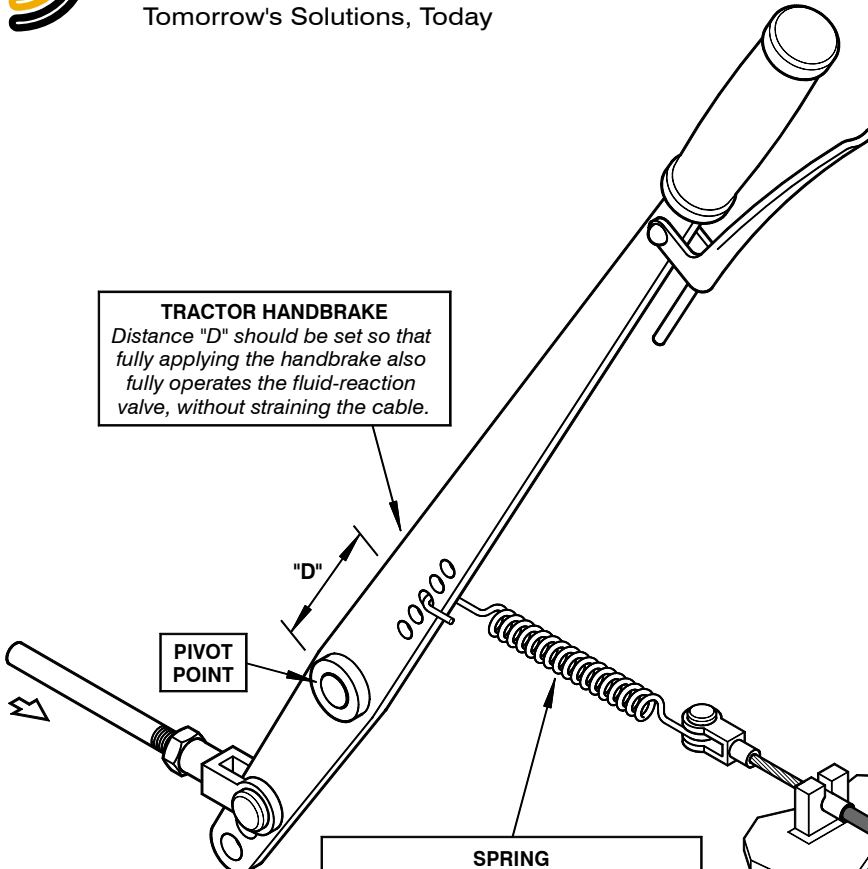
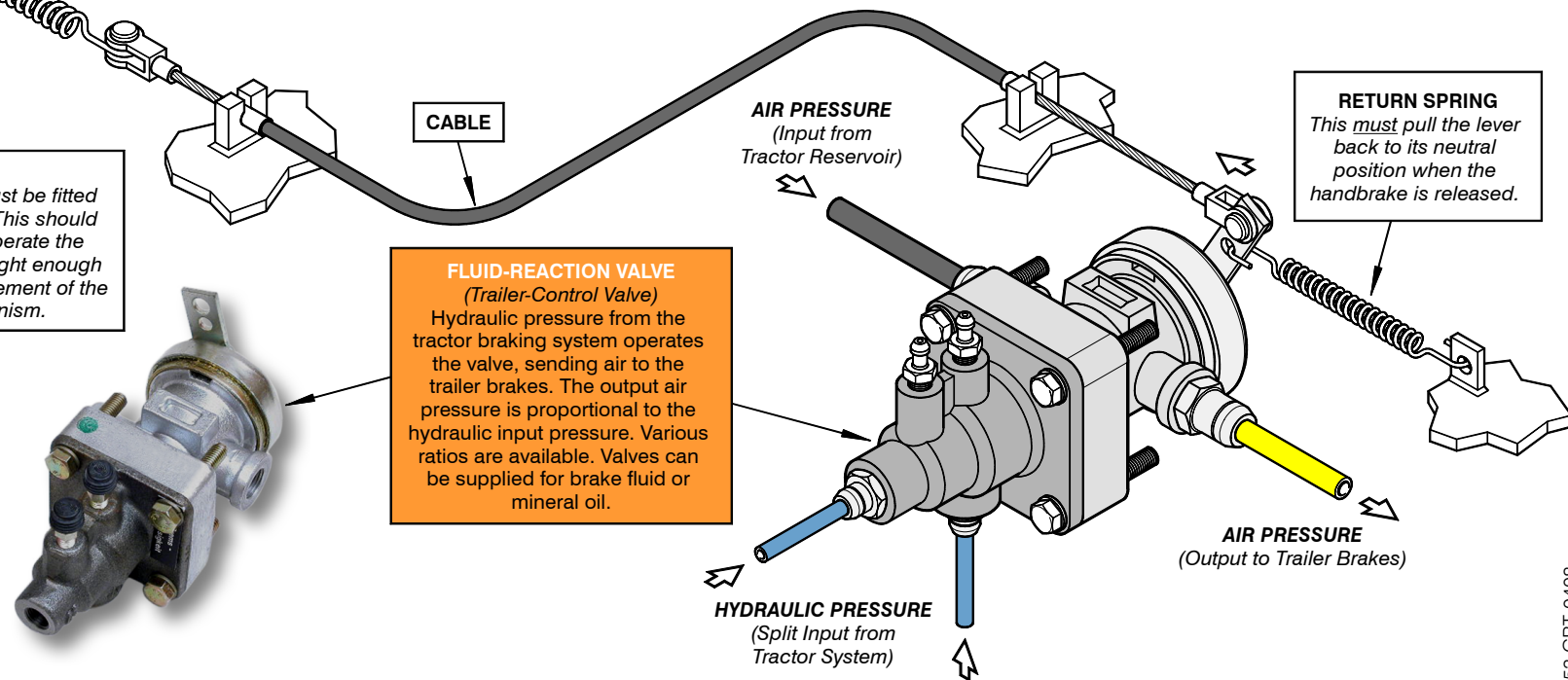


## AGRICULTURAL TRACTOR AIR BRAKING SYSTEM ADDITION OF FARM TRAILER AIR BRAKE CONTROL INCORPORATING TRACTOR HANDBRAKE



To enable a tractor with hydraulic brakes to tow a trailer with air brakes, a fluid-reaction valve is used. This valve senses the hydraulic pressure in the tractor braking system and automatically applies the trailer air brakes whenever the tractor brakes are applied. In addition, the valve is fitted with a lever which can operate the trailer air brakes independently, when there is no hydraulic input from the tractor. This is useful when a tractor and loaded trailer need to stop on an incline and then pull away. The tractor's handbrake alone might be insufficient to hold the extra weight, and in this situation a hand-operated trailer brake is required,

allowing the driver to operate the clutch pedal and move off. To achieve this, a Bowden cable is used to connect the lever on the fluid-reaction valve to the tractor handbrake lever. Applying the tractor handbrake now applies the trailer air brakes at the same time, giving the driver full control of the vehicle. *Please note that this method of applying the trailer brakes does NOT replace the conventional parking brake on the trailer. When left unattended, the trailer must be secured by means of an independent mechanical parking brake.*



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