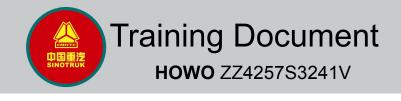


CHAPTER 11 STEERING SYSTEM

SECTION 1 GENERAL DESCRIPTION

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All the series of automobiles of China National Heavy Duty Truck Group Co., Ltd. (SINOTRUCK) adopt integral hydraulic pressure booster power steering system. Structure of the power steering operating device is shown in Fig. 1.



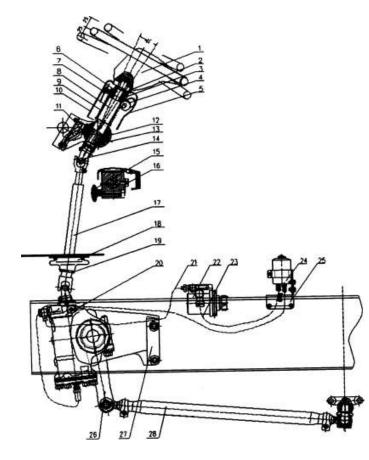


Fig. 11-1 Sketch of the hydraulic power steering system and steerage gear

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1. Steering wheel 2. Retaining ring 3. Contact ring 4. Ignition switch assembly 5./10. Steering column cover 6. Steering column 7. Steering column cover erection support 8. Steering column sleeve 9. Spring 11. Wiring harness mount support 12. Steering column erection support 13. Steering column guide sleeve 14. Universal joint 15. Regulator handle 16. Travel limit screw 17. Steering telescopic shaft 18. Steering column jacket 19. Bush 20. Steering gear 21. High-pressure oil pipe 22. Steering booster vane pump 23. Inlet pipe 24. Steering oil tank 25. Steering oil tank installation bracket 26. Steering rock arm 27. Steering gear support 28. Steering draglink assembly



Fig. 11-2, Fig. 11-3. Fig. 11-4 are respectively hydraulic pressure power steering system pipeline layouts of typical automobiles. Fig. 11-2 is for 4×2 and 6×4 types with relatively simple structures. Fig. 11-3 is for 6X2 type vehicle with elevatable bearing axle, the steering oil cylinder is not only for steering system power supply, but also for elevating shaft booster cylinder power supply. The part Nos. 7 and 8 oil pipes are respectively the inlet and outlet pipes of the elevating shaft booster cylinder. Fig. 11-4 is for double front shaft steering 8×4 type.



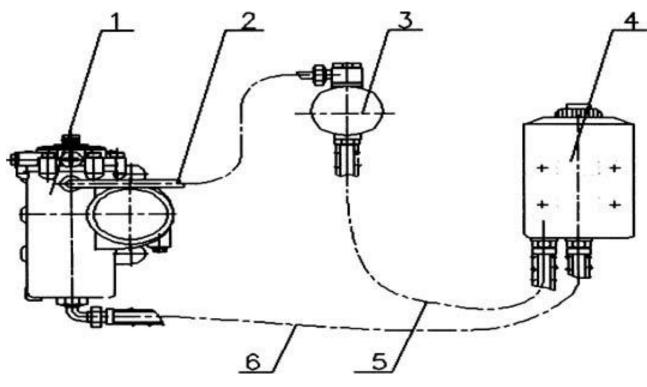
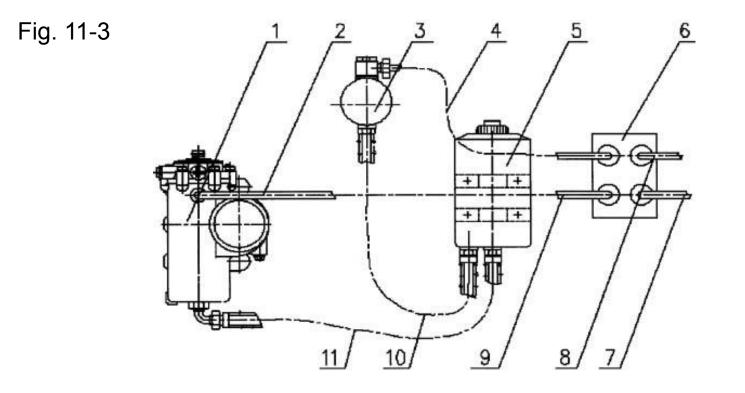


Fig. 11-2

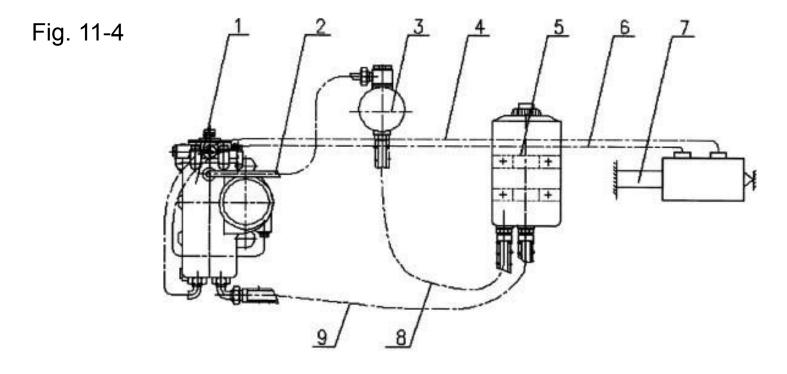
1.Power steering gear 2 High pressure oil pipe 3 Steering pump 4 Steering oil tank 5 Oil sucking pipe 6. Oil return pipe





1. Power steering gear 2,4,7,8,9. High pressure oil pipes 3. Steering pump 5 Steering oil tank 10. Oil sucking pipe 11. Oil return pipe





Power steering gear 2. High pressure oil pipe 3. Steering pump 4. High pressure oil controller 5. Steering oil tank6. High pressure oil pipe
Secondary steering axle booster cylinder 8. Oil sucking pipe 9. Oil return pipe