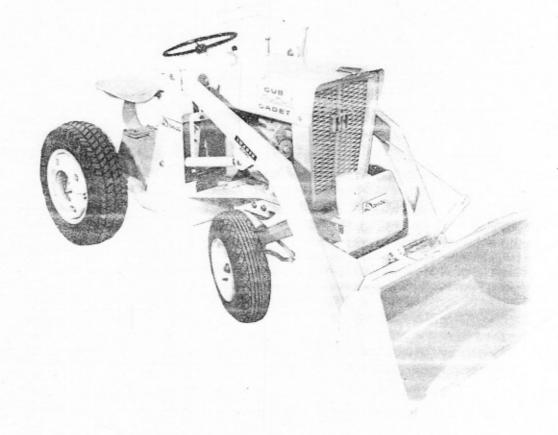
DANCO LOADER

MODEL RD-300

Operators Manual

SETTING UP INSTRUCTIONS PARTS LIST



For International Cub Cadet Tractor

UHN HAMILTON CO. 104 GRANBY STREET SLOOMFIELD, CONN. PHONE CH 2-5784

DANUSER MACHINE WORKS, INC.

P. O. BOX 15310 TULSA, OKLA.

INTRODUCTION

The Danco Loader Model RD-300 with Work Bucket has a clearing width of 34 inches and is designed for front mounting on the International Cub Cadet Tractor. The Loader Bucket has a lift capacity of 300 lbs. and is raised and lowered by means of front mounted hydraulic pump with two lift cylinders. Lift height is 52 inches for loading into pickup truck. The Work Bucket has hand lever trip device for dumping; Work Bucket will re-lock when lowered to ground.

INSTRUCTIONS FOR ADJUSTING AND OPERATING (REFER TO ILLUSTRATION 1 AND 2)

OPERATING

To raise the Danco Loader, pull lift lever handle. To lower the Bucket, push the handle to a forward position. To dump load, push dump lever control forward. To relock, lower Bucket to ground, back up tractor slightly.

LOADING CONDITIONS

When loading dirt, gravel, heavy materials, use low gear when approaching materials. Speeds may be increased when moving load to dump. Bucket may also be used as scraper in std. position.

HYDRAULIC SYSTEM

The Danco Loader has full hydraulic control with front mounted pump belt driven from engine PTO. Two single acting hydraulic cylinders with quick positive lift control. For Belt Adjustment, loosen the four nuts and adjust pump bracket downward until proper belt tension is obtained.

ATTACHMENTS:

Extra attachments, Crane Boom, Fork Lift, Material Bucket, are easily mounted to front lift arms by removing Bucket Bar and Bucket. Replace bar in holes provided on attaching tool.

CAUTION: Exercise extreme care when operating loader at high speeds. Loads when transported should be carried at lower position.

A Careful Operator IS THE BEST INSURANCE AGAINST AN ACCIDENT

National Safety Council.

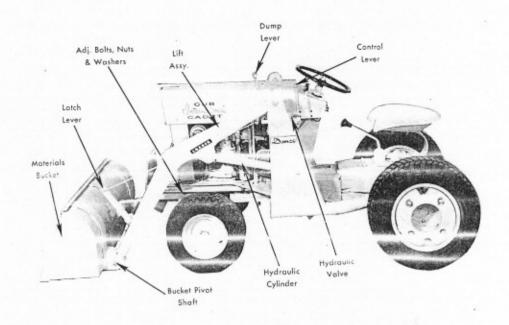


ILLUSTRATION 1

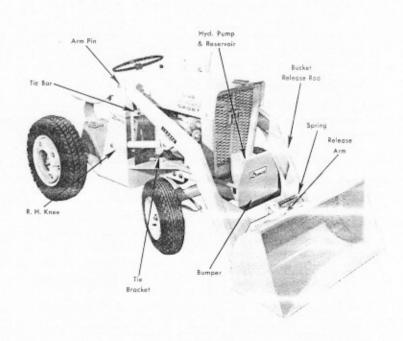


ILLUSTRATION 2

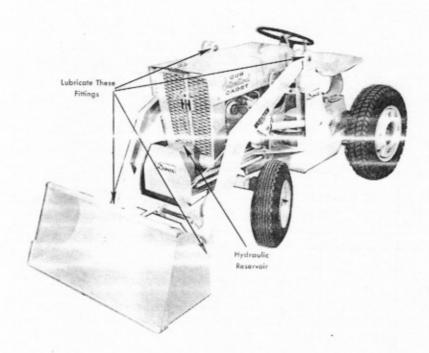


ILLUSTRATION 3



Lubricate and check hydraulic oil level after each 20 hours of operation, or if unit has not been operated for a long period of time, thoroughly check before using.

When using a pressure lubricating gun, be sure all of the fittings are free from dirt and paint so the lubricant is certain to enter the bearing.

The RD-300 Loader has only four lubrication points, where the lift arm assembly attaches to the side frames and to the bucket. Use pressuregun grease (chassis hubricant) and apply two or three strokes of the lubricator, or sufficient grease to flush out old grease and dirt.

To check hydraulic oil level, push hydraulic valve lever forward to retract lift cylinders; remove reservoir cap. Oil level should be 3/4" from top. If it is necessary to add fluid, use IH Touch-Control fluid. It is essential that the fluid be absolutely clean and free from water and all foreign matter when placed in the system.

CAUTION: Never operate the tractor without having sufficient fluid in the reservoir. Insufficient fluid may cause damage to the hydraulic system.

Proper lubrication is the best method of keeping operation expense to a minimum.

MOUNTING INSTRUCTIONS FOR RD-300 LOADER

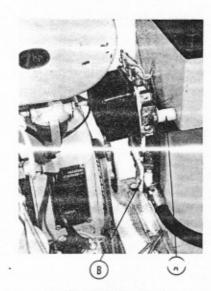


ILLUSTRATION 4

Position the LH Side Frame (Fig. C) with the pipe yoke resting on the tractor rear axle and secure with two ½ x 1 bolts and lockwashers (Fig. D). Proceed with the RH Side Frame in the same manner.

For necessary clearance, spacers must be placed behind the Voltage Regulator (Fig. A). Use two spacers and two ½ x 1½ bolts. This is much easier accomplished if the battery is removed to allow access to mounting nuts.

The two part Hose Bracket (Fig. B) is bolted together with one \(\frac{1}{2} \) is x 1 bolt and lockwasher. Then when the bracket is positioned as shown, it will form a clamp which will hold the hydraulic hose in the proper location.

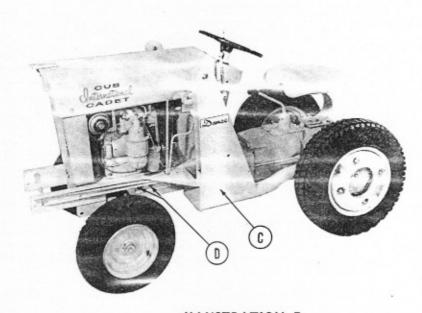
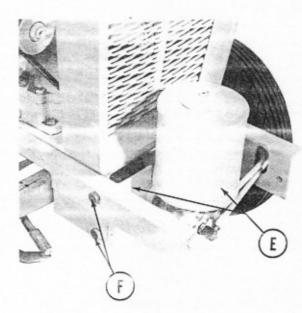


ILLUSTRATION 5



ILLUSTIATION C

The Hydraulic Pump and Pump Mounting Bracket (Fig. E) are preassembled at the factory. Position this assembly inside the Tractor Frame and secure with four ½ x 1½ bolts, nuts, flat washers and lockwashers (Fig. F). Do not tighten these bolts at this time.

Position Drive Sheave on Engine Shaft and align with the Sheave mounted on the Hydraulic Pump, then tighten set screw in the Drive Sheave.

Place drive belt around both sheaves and pry Hydraulic Pump Bracket downward until the correct belt tension is obtained. Tighten the four ½ x 1½ bolts (Fig. F) that had previously been left loose.

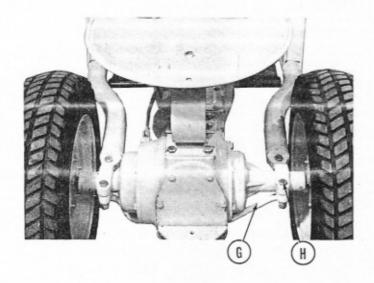


ILLUSTRATION 7

Secure the Rear Stability Rod (Fig. G) to the Side Frames with four $\frac{1}{2}$ x $2\frac{1}{2}$ bolts, nuts and lockwashers (Fig. H).

The two Tie Bars (Fig. I and Fig. J) are secured to the Side Frames with four 3/8 x 1 bolts, nuts and lockwashers.

Place the Tubing Clamp (Fig. K) around both Hydraulic Lines. Then bolt it to the Left Side Frame with one ½ x ¾ bolt, nut and lockwasher.

Tighten Hydraulic Tube Fittings at Pump and Valve (Fig. L).

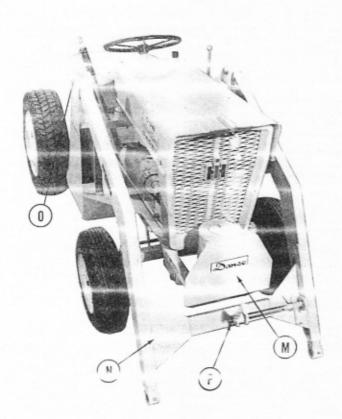


ILLUSTRATION 9

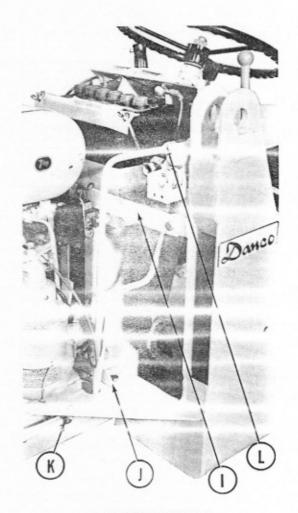


ILLUSTRATION 8

The Bumper (Fig. M) is positioned in front of the Hydraulic Pump and secured to the Side Frames with two %16 x %4 bolts, nuts and lockwashers.

Mount the Lift Assembly (Fig. N) to the Side Frames with two 1" pins, washers, and correr pins (Fig. O).

Insert the 3/8 x 21/2 bolt (Fig. P up through the Cross Bar of the Lift Assembly, then tighten a 3/8 nut on the exposed threads. Final adjustment is made after Bucket is mounted to the Lift Assembly.

Hook Tension Spring over lever as shown (Fig. Q). The Latch Lever (Fig. R) is slipped over the pin on the Lift Assembly and held in place with one 5/8 Flat Washer and cotter pin.

The Bucket Release Rod (Fig. S) is attached to the Latch Lever and Release Lever with two 1/4 flat washers and cotter pins.

Secure the three pieces of Hydraulic Hose (Fig. T) together with the 3/8 High Pressure Tee. Position this Hose Assembly as shown in Illust. 1, Fig. B, then tighten clamp to lock in place.

Before mounting Cylinders (Fig. U), attach Hydraulic Hose to the 90-degree fittings on Cylinders, making certain that all connections are tight.

Insert Cylinders (Fig. U) into the Side Frame Knees. (The hose must be on the bottom of the cylinder.) Secure with ½ x 2¾ bolt and flex nut (Fig. V). Then attach cylinder rods to the Lift Assembly Arm with ½ x 2¼ bolt and flex nut (Fig. W). Connect free end of hose to work port on Hydraulic Valve (Fig. X).

Work Bucket (Fig. Y) or other attachment is positioned on Lift Assembly and fastened in place with the Pivot Shaft (Fig. Z). Each end of the Pivot Shaft is held with a flat washer and cotter pin.

Thoroughly check to see that all bolts and Hydraulic fitting connections are tight.

Remove Hydraulic Reservoir Cap and add two quarts of IH Touch-Control Fluid. Start the engine, raise and lower the Loader several times. This will bleed the air out of the Hydraulic system. Lower the Loader and refill Reservoir to 3/4" from the top.

When checking Hydraulic Fluid, Cylinders should always be retracted.

Never operate the tractor without having sufficient fluid in the reservoir. Insufficient fluid may cause damage to the hydraulic system.

Final adjustment of the release arm (Illust. 6, Fig. P) can now be made. Adjust bolt until hook properly seats in the Bucket catch.

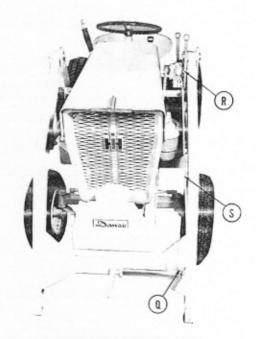


ILLUSTRATION 10



ILLUSTRATION 11

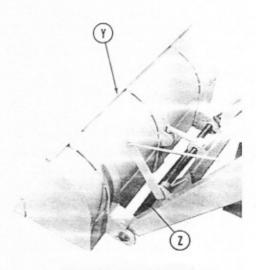
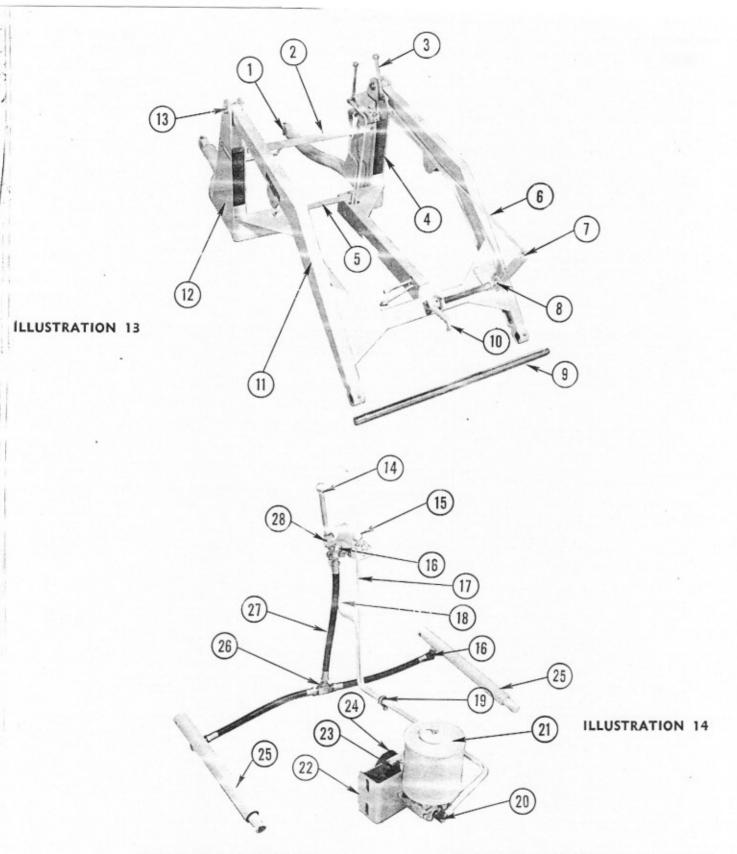


ILLUSTRATION 12



- WHEN ORDERING PARTS -

When ordering parts for your Loader, supply the following information:

- 1. The Loader model number.
- 2. Give part number, description, quantity desired.
- 3. Parts may be secured from your nearest International Harvester dealer. If not available, then:

ADDRESS ALL CORRESPONDENCE TO:

DANUSER MACHINE WORKS, INC.

WARRANTY

International-Danco loaders and parts are guaranteed for 90 days against defective material and workmanship. Should parts prove defective, new parts will be furnished, no charge, if broken parts are returned prepaid to factory for inspection.

P. O. BOX 15310

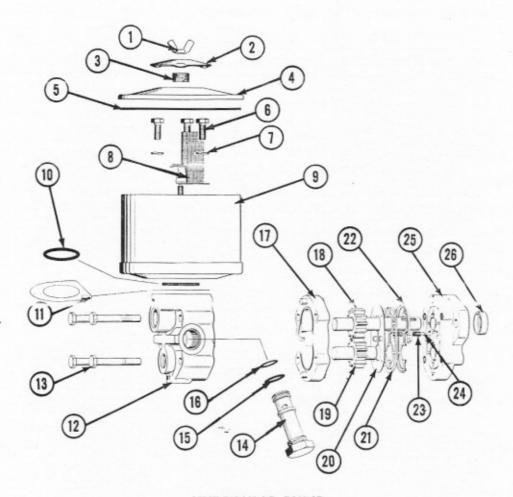
TULSA, OKLAHOMA

PARTS LIST

Fig. No.	Part No.	Description	Fig. No.	Part No.	Description
1	3068 1111-22 1112-5 1113-5	REAR STABILITY ROD 1/2" x 21/2" Capscrew (4) 1/2" Nut (4) 1/2" Lock Washer (4)	14	2937 3087 1782-10	CONTROL LEVER Chain Link #50 Spirol Pin HYDRAULIC VALVE
2	3067 1111-20 1112-7	TIE BAR 36" x 1 Capscrew (2) 36" Nut (2)	15	3072 1111-38 1112-9 1113-10	%'' x 2½'' Capscrew (2) %'' Nut %'' Lock Washer (2)
3	1113-8 2938 1113-1	36" Lock Washer (2) LATCH LEVER 56" x 136" x .085 Washer	16 17 18	3081 3079 3080	ELBOW 90° %" JIC — 36" NPT (3) PRESSURE LINE RETURN LINE
4	1124-9 3063 1111-169 1113-5	%2" x 1" Cotter Pin SIDE FRAME L H 1/2" x 1" Capscrew (2) 1/2" Lock Washer (2)	19	3084 1111-128 1112-14	TUBING CLAMP 1/4" x 3/4" Capscrew 1/4" Nut
5	3061 1111-20 1112-7	TIE BAR 36" x 1" Capscrew (2) 36" Nut (2)	20 21	1113-20 3082 3069 1111-96	1/4" Lock Washer ELBOW 90° %" JIC — 3%" Tube (4) HYDRAULIC PUMP & RESERVOIR 3/6" x 11/4" Capscrew (2)
6	1113-8 3060 1113-18 1124-1	3%" Lock Washer (2) BUCKET RELEASE ROD 1/4" SAE Flat Washer (2) 1/8" x 3/4" Cotter Pin (2)	22	1112-7 1113-8 - 2919	36" Nut (2) 36" Lock Washer (2) HYDRAULIC PUMP MOUNTING BRACKET
.7	3064 3085	SHAFT AND LEVER RELEASE ARM SPRING		1111-29 1112-5 1113-5	1/2" x 11/4" Capscrew (4) 1/2" Nut (4) 1/2" Lock Washer (4)
9	3065 1113-3 1124-4	BUCKET PIVOT SHAFT 1" x 1½" x 10 ga. Washer (2) %" 1½" Cotter Pin (2)	23	1113-4 1181-11 1111-173	1/2" SAE Flat Washer (4) BEARING — FLANGETTE 1/4" x 3/4" Carriage Bolt (3)
10	3059 1782-9 1111-18 1112-7	RELEASE ARM 1/4" x 1/4" Spirol Pin 3%" x 21/2" Cap Screw 3%" Nut	24	1112-14 1113-20 1177-19	1/4" Nut (3) 1/4" Lock Washer (3) SHEAVE 3.5" 0.0.
11	3057 1123-3	LIFT ASSEMBLY 14" x 28" Grease Fitting (4)	25	2741-208 3071	1/8" x 1/8" x 1/2" Key HYDRAULIC CYLINDER
12	3062 1111-169 1113-5	SIDE FRAME R H 1/2" x 1" Capscrew (2) 1/2" Lock Washer (2)		1111-177 1111-6 1112-3	1/2" x 23/4" Capscrew (2) 1/2" x 21/4" Capscrew (2) 1/2" Flex Nut (4)
13	3066 1113-3 1124-4	DIVOT PIN (2) 20 3003 IEE -s right ressure		HYDRAULIC HOSE 3/8" (3)	

PARTS NOT SHOWN

Part No.	Description	Part No.	Description
1177-18 1176-40 2974 1111-150 1112-9 1113-10	SHEAVE 3.0" O D (Tractor) DRIVE BELT FRONT BUMPER %" x 34" Capscrew (2) %" Nut (2) %" Lock Washer (2)	2924 2920 2921 1111-27 1113-10	VOLTAGE REGULATOR SPACER (2) 1/4" x 11/2" Capscrew (2) HOSE BRACKET — Rear Tie Bar HOSE BRACKET — Front Tie Bar 1/4" X 1" Capscrew 1/4" Lock Washer



HYDRAULIC PUMP

Fig. No.	No. Req'd	Part No.	Description	
1 2	1	3069 3069-21 3069-19 3069-17	Hydraulic Pump & Reservior Assembly Seal Repair Kit Wing Nut Breather Cap	
3 4 5 6 7 8	1 1 3 3 1	3069-10 3069-18 3069-11 1111-180 1113-10	Air Filter Lid Lid Gasket Cap Screw Lock Washer Filter Assembly	
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3069-16 3014-6 3069-12 3069-13 1111-176 3069-20 3014-7 3014-8 3069-4 5069-9 3069-8 3069-5 3069-3 3069-7 3069-1 3069-2 3069-6	Reservoir Tank O-Ring Reservoir Gasket Back Plate Assembly Cap Screw Relief Valve Assembly (Includes Figures 15 & 16) O-Ring O-Ring Body & Dowel Assembly Drive Gear Assembly Idler Gear Assembly Diaphragm Back Up Gasket Diaphragm Seal Spring Steel Ball Front Plate Assembly	

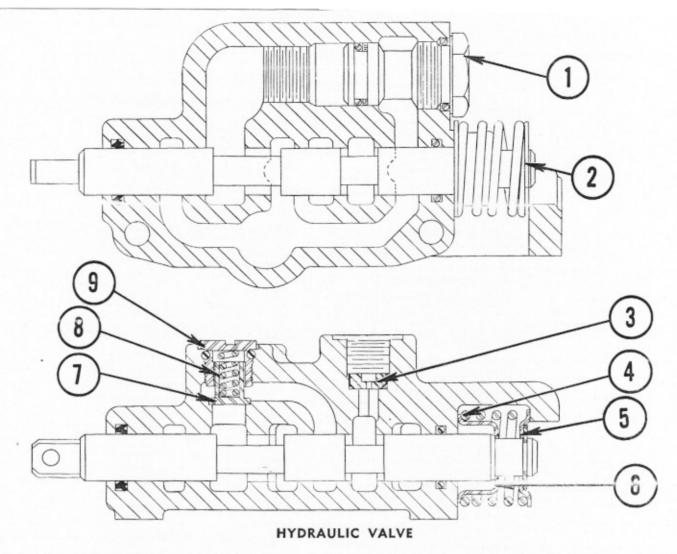
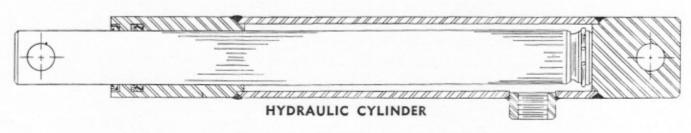


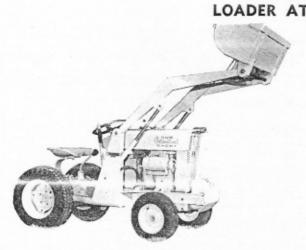
Fig. No.	No. Req'd	Part No.	Description	
1 2 3 4 5 6 7 8 9		3072 3072-13 3072-7 3072-11 3072-12 3072-3 3072-1 3072-2 3072-4 3072-5 3072-6	Hydraulic Valve Assembly Seal Repair Kit Plug Assembly Clip Ring Orifice Plate Spring Snailow Washer Deep Washer Plunger Spring Plug Assembly	



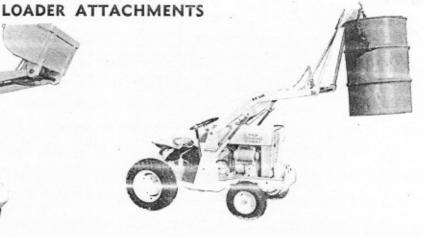
Part Number	Description
3071	Hydraulic Cylinder Assembly
3071-6	Seal Repair Kit

ADDRESS ALL CORRESPONDENCE TO: DANUSER MACHINE WORKS, INC.

DANCO RD-300



RD-301 Work Bucket. Capacity (2 cu. ft.) for standard loader applications.



RD-302 Crane Boom. A quick lift for any job.



RD-303 Light Material Bucket has big capacity V_3 cu. yd. for handling snow, other light materials.



RD-307 Fork Lift attachment is ideal for moving palletized material fast. Level Lift over 4 feet.



RD-304 Rear Weight Box gives 200 lb. counterweight when loaded with sand.



RD-305 Tapered Bearing Hub and Rim Kit allows free wheeling with heavy front load.



AMUSEY MACHINE WORKS, Inc.

PHONE TE 5-9541

BOX 15310

015 NO. SHERIDAN ROAD